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GARRISON - SPOKANE
500-kV Transmission Project

Plan for Impact Mitigation and Monitoring

USDA FOREST SERVICE

USDI BUREAU OF LAND MANAGEMENT

STATE OF MONTANA

USDOE BONNEVILLE POWER ADMINISTRATION

AUGUST 1983

PLEASE RETURN

GARRISON-SPOKANE 500-kV TRANSMISSION PROJECT

Plan for Impact Mitigation and Monitoring

Garrison Substation to Taft Substation, Montana

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Montana Department of Natural Resources and Conservation

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GARRISION-SPOKANE 500-kV TRANSMISSION PROJECT

PLAN FOR IMPACT MITIGATION AND MONITORING

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INTRODUCTION

This plan consolidates mitigation information from several documents, including the final Environmental Impact Statement, the Record of Decision, the BPA-Forest Service Project Plan, construction specifications, the final State of Montana Report, and staff reports. Consolidation of information from these sources is intended to make this plan a reference document.

Key terms in the report are mitigation and monitoring. Mitigation includes: (a) avoiding the impact; (b) minimizing impacts; (c) rectifying the impact by repairing, rehabilitating, or restoring the affected environment; (d) reducing or eliminating the impact over time by preservation and maintenance operations; and (e) compensating for the impact by replacing or providing substitute resources. Monitoring consists of overseeing project development to ensure that mitigation is accomplished. Monitoring also includes studies to measure the effectiveness of mitigation and to identify effects that may be unmitigated or partially mitigated.

The plan is organized into three major sections--mitigating measures, monitoring studies and study management, and appendicies. The mitigation section discusses measures related to construction activities such as right-of-way clearing and construction of access roads, and transmission line. It also addresses the mitigation of effects on specific resources such as wildlife, water quality, and visual quality. The monitoring section describes the studies being developed to measure effects caused by the project. The appendicies contain maps, tables, cost estimates and other references describing detailed aspects of mitigation and monitoring studies.

The mitigating measures discussed in this plan are designed to avoid or reduce environmental impacts as much as possible. A major part of impact mitigation has been accomplished by design and placement of transmission lines and access roads and these measures have already been taken. This process is documented in the final environmental impact statement on the Garrison-Spokane project.

In some cases, analysis of the proposed route centerline showed that application of the general mitigating measures may not attain the desired result, and site-specific measures were considered necessary. Site-specific measures include adjustments of the route centerline or road, relocation of towers, adjustment of tower heights, various clearing techniques such as topping, and prescriptions for access road management such as closing or obliterating roads after construction. The resultant site-specific mitigating measures are included in appendices to this plan.

The project construction specifications will be the source document for actions between BPA and the contractor. The project plan will be the source document for actions between BPA and the Forest Service. This mitigation and monitoring plan will be used as the source document between BPA and the BLM, and also between BPA and the State of Montana. BPA will work with Federal and state agencies to insure inclusion of the appropriate mitigation measures from the project plan and this plan into the construction specifications for the 500-kV line. As site specific mitigation measures are developed they will be attached to this plan.

This mitigation and monitoring plan does not embody the "construction standards" established by the Board of Natural Resources and Conservation in their order of May 6, 1983. Any reference to such "construction standards" is not to be construed as an admission by any Federal or State agency nor to be used in any manner as evidence to establish what constitutes a state standard, if any, with which Federal agencies must comply pursuant to the Federal Land Policy and Management Act, it being understood that this issue is currently subject to litigation (State of Montana versus Johnson, No. 82-3584, U.S. Court of Appeals, Ninth Circuit). However, the State of Montana will monitor the construction and operational phases of the project for substantial compliance with the Board's "standards" of May 6, 1983.

MANAGEMENT AND IMPLEMENTATION

Through cooperative effort with State and Federal agencies, BPA has designed and located the Garrison-Spokane 500-kV line to have minimum adverse environmental impact on the human and natural environment. This includes the utilization of numberous measures to mitigate impacts during and after construction. Meaures include those developed over many years of BPA experience with 500-kV lines, and measures developed or modified for this project.

Although past experience indicates mitigation measures will effectively reduce impacts, it is desirable to utilize a systematic process to monitor the implementation of these measures. This is especially true for those measures and sensitive resources that are of significant interest for the Garrison-Spokane project.

To implement and oversee the monitoring program, BPA will assign a project manager. Consistent with past efforts, BPA will continue to invite participation from State and Federal agencies to include the mitigation monitoring phase of the project.

A two level project management/implementation approach will be followed.

The existing interagency steering committee will provide guidance and oversight for the program. The BPA project manager will chair that committee. The senior staff representatives from participating agencies will finalize the overall goals and plan for the monitoring program. To implement the program five interagency task teams will be established. These teams will finalize detailed scopes of work for monitoring studies for review by the steering committee. These studies will include methodology, schedules, and identifying how data will be collected and analyzed. Components covered will include construction, revegetation and road closure; wildlife and fisheries; socioeconomics and recreation; cultural resources; and visual effects.

The monitoring program will begin during summer 1983 as construction of the line begins and will continue following energization of the Garrison-Spokane line in 1985.

It is assumed that participating agencies will incur the costs associated with their participation on the steering committee. BPA will fund the actual monitoring program including data collection and analysis. Therefore, the budgets presented in the Appendix represent BPA's commitment of funds for that purpose. Payment for overhead costs associated with the studies is currently being negotiated by BPA and the state.

SECTION I

MITIGATING MEASURES

SECTION I MITIGATING MEASURES

A. GENERAL

General measures are to: minimize right-of-way clearing consistent with safe, reliable operation of the line; control access road development; control soil erosion and sedimentation; coordinate clearing and tower and road locations; schedule construction as necessary to avoid sensitive wildlife habitat and poor soil conditions; otherwise reduce or avoid effects on wildlife or their habitat and impacts on hunting opportunity; avoid effects on honey-bees; reduce visual intrusion; reduce disturbance of desirable vegetation; and protection of cultural resources. Other measures such as herbicide use and interference to radio and television will be addressed in a separate operation and maintenance plan.

Before the start of construction (at least 30 days if possible), BPA representatives and the construction contractor will meet with officials of affected communities and with local business representatives to discuss the size and timing of predicted temporary increases in population, provisions for housing workers, and possible demands on local services. This action is intended to reduce community concerns about construction period impacts and to allow time to prepare for stresses on local services. If the contractor is not available 30 days in advance of construction, BPA staff would make the initial contacts. If desired by local officials, a second meeting with the contractor could be held before construction starts. BPA representatives will remain in touch with local officials throughout the construction period to determine impact aid requirements.

For all valley crossings determined to have aeronautic safety concerns, there would be a centerline review by DRNC, BPA, FAA and Aeronautics to define site specific recommendtions for maintaining aeronautical safety while minimizing long term visual impacts.

BPA would assist the Montana Aeronautics Division in updating state aeronautic charts to show potential airway hazards posed by the transmision line.

B. ACTIVITY SPECIFIC MEASURES

B. 1. CLEARING AND SLASH DISPOSAL

Trees to be removed and trees to remain will be clearly designated both by mapping and by marking in the field.

Special mitigation measures may be developed for critical visual areas, including feathering of clearing margins, identification of save trees, and tree-topping. Specific options will be developed once the back lines and clearing limits are known and marked on the ground. Also see Section I, C.7 and Appendix B.1.

All slash generated by construction within 100 feet of identified roads, trails, and viewpoints will require disposal. Natural accumulations of fuels may be retained. This measure applies to visually sensitive roads and trails that cross the right-of-way and to places where roadside fuel would create hazards.

BPA's contractors will handle all slash and other materials generated by clearing on private land in accordance with the Montana Hazard Reduction or Management Law.

All snags and old growth trees shall be left standing which do not endanger the line or maintenance equipment, including the helicopters.

Brush and grass will not be cleared except at construction sites such as tower, reel, puller sites and so on.

To minimize additional clearing, counterpoise will be placed or buried in disturbed areas whenever possible.

Felling shall generally be directional in order to minimize damage to remaining trees.

Maximum stump height shall be twelve inches on the uphill side or 1/3 the tree diameter, whichever is greater.

Tree length skidding is permitted except that piece lengths shall not exceed 41 feet in partial cut areas.

The yarding method, including the location of skyline corridors, shall be approved in advance of felling trees. Final yarding corridor width shall not exceed 12 feet after rub trees have been removed.

BPA or its contractors shall not unnecessarily damage young growth or trees left standing.

Following removal of merchantable timber and other products, BPA shall dispose of clearing debris resulting from this project.

All slash left on site shall be lopped to a 24-inch maximum height above the ground. Hydro axe is an acceptable method.

Slash within the BPA transmission line right-of-way shall be piled to meet the following specifications:

1. All areas exceeding 35% average slope shall be hand piled or cable yarded. Areas less than 35% average slope on nonsensitive soils may be dozer piled using a brush blade, cable yarded, or hand piled. Areas less than 35% average slope on sensitive soils, such as riparian areas, or fault gouge, shall be cable yarded or hand piled. Sensitive soils areas are identified by station in Appendix B.1.

2. Small piles (i.e., 6'x 12') shall be no closer than 25 feet and large piles (i.e., 10'x 20') shall be no closer than 50 feet to standing timber to minimize scorching. Piles may be individual or wind rows and must be burned to 90% consumption.

3. Piles shall be compact and relatively free of soil. Tractor piling shall be done with brush blades.

4. All stumps which have been uprooted will require disposal.

Floodplain slash resulting from project clearing shall be removed and piled outside the floodplain before December 1. Instream slash must be removed within 24 hours.

Clearing and excavation around visually sensitive tower sites will be kept to an absolute minimum. Excavation to allow assembling towers at sensitive sites will not be permitted. For locations see Appendix B.3.

Where it is necessary to remove trees in streamside areas, fall trees away from streams; falling trees into or across streams will not be permitted.

Unless otherwise restricted, occasional small volumes of merchantable forest products may be left on the ground when environmental impacts of removal exceed the benefit of removal.

Depending on season of year and site conditions, special practices/precautions may be required to avoid unnecessary damage during clearing and slash disposal in wet areas (such activities in riparian areas are controlled under a separate section). Such actions may include cable skidding (machine located off-site), skidding on frozen ground, routing of skid trails, hand clean-up of slash, and others as necessary.

B. 2. EQUIPMENT USE

The use of splicing, reel, or puller equipment will be prohibited or restricted at tower sites steeper than 30 percent in or adjacent to riparian zones and in areas managed for retention or partial retention of visual quality. Implementation of such restriction will depend in part upon whether a suitable area is available for the restricted activities. If no suitable area is available, then the activity would have to be performed to reduce impacts as much as possible. Such prohibitions would reduce visual impact and soil disturbance at sensitive tower sites.

To restrict damage to residual stand and prevent soil disturbance, crawler tractors used for skidding shall not be operated with blade attached unless waived in writing on a site specific basis.

Skidding with tractors shall not be permitted within 100 feet of live streams except in places designated in advance, and in no event shall skid roads be located in live or intermittent streamcourses. Skid trails shall be located high enough out of draws, swales, and valley bottoms to permit diversion of runoff water to natural undisturbed forest ground cover.

B. 3. ROAD CONSTRUCTION

Streams crossings will be designed to provide for fish passage and/or to prevent channel degradation to the extent possible. Installations may include baffles, check dams, oversized structures or rip-rapping. Such measures will be applied in all streams with a fisheries resource. They may be applied in third order streams or larger, or where crossings require large fills or in streams with meandering channels. BPA will submit a notification to Montana Fish, Wildlife and Parks, prior to constructing facilities across perennial streams. This notification is to serve as voluntary compliance with procedures addressed by the Montana Stream Protection Act.

A gravel surface will be applied to roads with low load bearing strength and to roads built on sensitive soils. Gravel surfacing reduces soil erosion, increases surface bearing strength of roads and provides for longer season of use.

Road design criteria, typical grading sections, cut and fill slopes, extra widening, and culvert installation for field designed roads shall conform to the BPA Standard Specifications. Maximum traveled way of tangent sections will be 14 feet, subject to agreed upon tolerances.

Any roads that exceed specified widths will be brought back to design standards and disturbed areas rehabilitated, unless otherwise negotiated by the landowner. During construction, modifications required to accomodate field conditions may be approved by the landonwer.

Roads in areas of severe to very severe erosion hazard shall be constructed to minimize erosion.

Construction of access roads and towers may be limited during periods of soil saturation and spring runoff or other conditions that would increase sediment loading in streams.

Location of temporary roads shall be approved in advance of construction.

Provide adequate drainage and erosion control on all roads.

All culverts shall be installed at the time of road construction. Road stabilization shall also be applied at the time of road construction if road use is anticipated during soft roadbed or wet conditions.

Reinforce subgrades or limit access to dry or frozen periods in areas of soils with low bearing strengths.

Falling, bucking, limbing, and skidding of merchantable logs shall be done prior to road construction.

Livestock gates will be provided at all fences crossed and natural barriers breached by a permanent road constructed by BPA. Breached natural barriers will require sufficient fencing to control livestock. Width of livestock gates will be consistent with the width of the travelway.

Place temporary cattleguards or closures at all fence crossings and breached natural barriers on temporary roads. Breached natural barriers will require sufficient fencing to control livestock.

All culverts shall be installed with the culvert inlet at natural stream grade or ground, unless exceptions are approved.

Road construction slash shall be decked or piled off road prism prior to earth moving activities.

Gates will be installed as soon as practicable, but no later than 60 days past the achievement of road grade at the gate location. Except when construction is occurring behind gates, the gates shall be closed and locked at all times. During construction, the contractor will prohibit public access on the roads designated by the Forest Service for gating during the big game hunting season.

Improvement of existing roads will be kept to the minimum necessary for safe construction and maintenance of the transmission line.

Trails on the Forest Transportation System will be protected and kept open for public use. Where it is necessary to cross a trail with roads of the powerline, the trail corridor will be restored so hikers, horses, pack strings, and trail bikes (where applicable) can continue to pass safely. Where necessary, the cut and fill slopes will be modified to accommodate the trail tread. Adequate signing and/or blazes will be established so the user can find the route of travel.

B. 4. ROAD MAINTENANCE

BPA's contractor(s) will maintain all access roads, including drainage facilities, which he constructs or uses. Any site-specific road damage, including rutting, resulting from BPA operations shall be repaired and restored to as good or better than original condition as soon as possible. Proportional shares of maintenance cost will be determined for roads having other commercial users.

All roads on National Forest System lands and BLM administered lands, including those under construction, will be winterized (bladed and drainage control made functional) by September 30, or as soon as soil moisture conditions permit. When use of roads continues beyond this date roads will be rewinterized every two weeks.

If contractor(s) elects to do snow removal it shall be done in a manner to preserve and protect the roads, to insure safe and efficient transportation, and to prevent excessive erosion damage to roads, streams, and adjacent lands.

At the end of line construction, final maintenance will be performed on all project access roads maintained by BPA's contractor(s). They will be returned to a condition as good or better than when construction activities began. A joint inspection and agreement of the final condition will be made by the Project Coordinators, and a representative from the Upper Columbia Area Line Maintenance Office.

Disposal of excess material will be done in a manner that will not disturb stabilized fill slopes and will be deposited in areas with adequate buffering between the waste area and active stream channels.

Oiling or application of chlorides to roads for dust control will be done only where there is a very low risk of imminent precipitation that might wash oil or chlorides into stream channels. Probability of rain or thunderstorms should be less than 20 percent on the day of application with projections of no more than 30 percent for the following two days.

B. 5. ROAD USE

In cases where roads are to be permanently closed, roadside ditches would be eliminated and the roadbed would be outsloped, ruts and berms would be removed, cross ditches and water bars would be installed and the roadbed would be revegetated. The road prism would be left intact for emergency use. This practice is applicable to roads not needed for future resource management and where road obliteration is not considered necessary. This measure would eliminate road maintenance for the affected segments and would reduce soil erosion and road management problems.

Restrict use of high volume or oversized construction traffic on National Forest System and BLM Roads so it does not occur on the following days: a.) Memorial Day weekend, b.) July 4th weekend, c.) Labor Day weekend, d.) Opening day and first weekend of general big game hunting season.

Road use will be restricted on a case by case basis through seasonal closure, obliteration of temporary roads or other means as appropriate. Formal designation of road closure will be accomplished through the Federal travel planning process and implemented through an operation and maintenance plan developed jointly for the project.

C. RESOURCE SPECIFIC MEASURES

C. 1. WILDLIFE PROTECTION

Construction activity will be prohibited between March 15 and July 15 in old growth management areas (see Appendix B. 1). This will reduce impacts to wildlife that depends on old forest growth during the breeding and reproductive season.

Escape trails will be provided to allow big game to cross steep road cuts. Such trails will be on 20 to 30 percent grade with an 18 inch tread. They will be installed where well defined game trails are crossed by cut slopes steeper than 1:1 and higher than 15 feet. One trail will be provided every 1,000 feet where the cut slopes exceed 1:1 in steepness and 15 feet in height with no usable game crossing.

Any nests of golden eagles, prairie falcons, goshawks, or ferruginous hawks found along the proposed transmission line will be avoided if possible. Protection and mitigation measures will be determined on a case-by-case basis.

No clearing or construction activities will occur on winter range between December 1, and May 15, unless construction activities in these areas were initiated prior to October 15. Under such circumstances work may be permitted beyond December 1, if activities would not adversly affect big game. The Department of Fish, Wildlife, and Parks will be consulted on the granting of requests to waive timing restrictions. Requests for waivers will be considered on a case-by-case basis. Requests shall be received a minimum of one week prior to proposed activity. Locations of closure areas on all lands are identified in Appendices B. 1, B. 2, and B. 3.

A state biologist may participate as a member of the Forest Service interdisciplinary team for timber sales proposed along the transmission line.

Obliteration of a 1/4 mile segment of the Harvey/Eight Mile Creek tie-through road will be done after construction to prohibit through traffic along the Harvey Ridge Trail.

Firearms carried in personal or construction vehicles while in the construction area, especially behind public road closures, should be agressively discouraged. Persons violating state game laws or public road closures will be fined or prosecuted.

Elk Habitat Improvement - Elk winter range habitat would be improved by burning. Areas selected should be winter range that has grown past the desired successional stage.

C. 2. WILDLIFE ENHANCEMENT

Even with the mitigation measures discussed above, some effects will occur to wildlife and fisheries habitat. A monitoring program will be undertaken to determine the amount and kind of effects that actually occur. Based on findings of the program appropriate recommendations will be developed for further mitigation and/or enhancement to offset adverse effects. Examples of possible enhancement opportunities for wildlife and fisheries are outlined in the following sections.

Enhancement Opportunities

Project Name by Priority	Acreage	Anticipated Cost
1. Mountain Creek Burn	400 acres	$8,000
2. Lupine Creek Burn	500 acres	5,000
3. Tyler Creek Burn	200 acres	4,000
4. Schwartz Creek Burn	100 acres	2,000
5. Ellis Creek Burn	50 acres	2,000

Priority	Units	Prescription
1	40 acres	(D-3) Flat Gulch Elk Pasture. A fence excluding livestock and from an important component of winter range requires reconstruction ($2,000).

Priority	Units	Prescription
2	40 acres	(D-3) Potato Lakes Elk Pasture. A fence which excludes livestock use of an important component of winter range is to be rebuilt ($1,000).
3	20 acres	(D-3) Stewart Ridge Conifer Control. Conifers invading natural grasslands are reducing forage production. These conifers can be slashed with chainsaws and handpiled for burning ($2,000).
4	5 acres 1/2 mile of fence	(D-1) Douglas Creek Riparian Rehabitation Sec. 32 T9N R12W Fence riparian zone to exclude cattle until woody vegetation has recovered. Plant willows to improve riparian condition ($1,900).
5	20 acres	(D-1) Jackson Park Aspen regeneration Fall aspen adjacent to and in old timber sale units. Slash can be left on the ground to protect new sprouts from big game or livestock grazing ($3,000).
6	75 acres	(D-1) "The Hole" project. In the head of Gold Creek 75 acres of an old timber sale requires additional slash treatment to make the area available for big game use. After slash is piled and burned, paludal grasses and forks can be planted to accommodate increased elk use.

Fisheries Enhancement - Candidate measures for fisheries enhancement are:

1. (D-1) Gold Creek Lake repair. The breached dam on this lake to restore its depth and fishery value. Cost undetermined. Engineering consultation is required.

2. (D-3) One mile of stream. Harvey Creek Stream rehabilitation. Install structures to improve fishery habitat. Plant willows to improve bank cover (12,500).

3. Replace culvert in Silver Creek in Mineral County at the town of Saltese (T19N, R31W, SE1/4, SE 1/4, Sec. 14).

4. Provide fish passage up Tamarack Creek from Clark Fork River ($30,000).

C. 3. RANGE PROTECTION

Drift fences will be installed when clearing of the right-of-way makes ineffectual the natural cattle movement barriers within existing grazing units.

C. 4. WATERSHED - WATER QUALITY PROTECTION

Construction equipment service areas will be located at least 300 feet from all stream courses. In any event, the service areas shall not located within a 50 year floodplain.

The following table of buffer strip widths will be provided between areas of disturbance (road construction or tower construction) and streamcourses.

Buffer Strip Specification - A buffer-filter strip of undisturbed vegetation will be left along streams that have (a) a well-defined streamcourse, (b) aquatic or riparian vegetation, and (c) sufficient velocity to dislodge or transport soil particles during any period of flow. Buffer strip width is measured from the high water line of a channel. For braided streams with more than one discernible channel (ephemeral of permanent) the high water line of the outer-most channel is used.

Recommended Buffer-Filter Strip Widths From Each Side of a Stream

Land Slope	For Stable Soils Non-Fishery Streams (Feet)	For Fishery Stream or Sensitive Soils With Dissected Slopes (Feet)
0%	25	50
10%	45	90
20%	65	130
30%	85	170
40%	105	210
50%	125	250
60%	145	290
70%	165	330

In the event that vegetation cannot be left undisturbed, structural sediment containment must be substituted before soil disturbing activity commences.

Point discharge of water will be dispersed in a manner which will not cause erosion or sedimentation of streams.

Blasting will be controlled in area of natural springs so water flow is not altered.

C. 5. CULTURAL RESOURCES

Mitigation measures will be applied to archeological and historical properties which are listed on or are eligible for inclusion on the National Register of Historic Places. Standard forms of mitigation are listed in Attachment B to the Memorandum of Agreement entered into by the Montana State Historic Preservation Officer; Advisory Council on Historic Preservation; U.S. Forest Service, Region I; Bureau of Land Management, State Director-Montana; and the Bonneville Power Administration concerning construction of the Garrison to Taft Montana 500-kV transmission line. BPA's cultural resources consultant will meet with the construction inspectors and construction contractor during the post award/preconstruction meetings to explain the requirements of cultural resource obligations. Sensitive archeological and historical areas will be indicated on maps for the contractor along with any special construction or monitoring requirements associated with these areas.

It is understood that forms of mitigation for each property will depend upon the characteristics of that property. In all cases, however, all National Register or eligible sites will be "off limits" to all construction personnel and all landowner-construction personnel and all landowner-construction contractor-negotiated agreements in or near archeological or historical sensitive areas shall be reviewed by the BPA Contracting Officer prior to implementation of such agreements as a means of preventing inadvertent impacts to these sensitive areas.

Discountinue construction operations whenever any historical, archeological or paleontological remains are encountered. Follow established procedures; see Appendix C.

Obtain cultural resource clearances on all sites not presently located and approved, such as reel sites, tensioning sites, and pulling sites.

C. 6. EROSION CONTROL AND RESTORATION

Roads to be obliterated would be restored to near natural contours and revegetated with the appropriate seed mix. "Near natural contour" refers to elimination of the road prism by grader or other equipment using available material. Obliteration will be designed to eliminate vehicle access beyond the junction with open roads. This measure may apply to temporary tie-through roads, construction roads not necessary for future access and tower access roads where road management, steep grades, or key wildlife habitat cause impacts to resources. A need for road obliteration has been identified and a tentative list of roads to be obliterated is in Appendix B. 2, Summary of Road Stipulations. The final decision to obliterate roads will be made following a field review of the access roads near the end of the line construction contract. The review will be conducted by BPA Construction, BPA Maintenance and the landowner.

Scarify roads to a depth of 2 inches and seed with the appropriate mixture. This measure would be applied to all roads to be closed to general public use, but needed for BPA maintenance or future Forest Service or BLM use. Scarification would improve seeding success, reducing erosion of soils and restoring vegetation cover for wildlife. Esthetics would be improved and road maintenance eliminated.

Areas of soil disturbance at other than rock faces will be rehabilitated and revegetated. If delay causes a two week period to be exceeded, scarification to break the soil crust will be required prior to seeding and fertilizing.

Permanent unsurfaced roadbeds not open to public use will be revegetated as soon after use as suitable conditions exist. In fall or spring, scarify lightly (approximately one to two inches) to break up roadbed compaction. Immediately after scarification of roadbed, apply designated seed mixture. Use of a seed drill is an acceptable alternative to scarification.

Soil preparation, seeding, mulching, and fertilizing shall be repeated as necessary to secure soil stablization. Rehabilitation shall be considered satisfactory when revegation density has been achieved (a 50 percent canopy cover of seeded and desireable volunteer species after the third growing season).

Temporary roads, borrow pits, and other disturbed sites will be returned to near natural contours. When this requirement is waived scarification to break up compacted soil should be done.

New borrow pits will require an approved restoration plan.

During restoration, the topsoil material will be replaced on the surface of the disturbed site and graded to near natural contours.

Excess material from excavation not suitable or required for backfill shall be evenly filled back onto the cleared area, prior to spreading the top soil. Large rocks and boulders not buried in the backfill will be placed inside tower legs or disposed of at areas within reasonable haul distances.

If damage by erosion or other causes occurs after the completion of grading and before beginning the revegetation work, BPA or its contractor(s) shall repair such damage.

Where feasible, portions of existing roads which are abandoned due to realignment by BPA will be restored to near natural contours and revegetated. Such restoration shall not require import of additional material. "Near natural contour" refers to elimination of the road prism using available material. The natural drainage pattern shall be restored.

Abandoned jammer and mine roads crossed by new BPA access roads on National Forest System and BLM administered lands and not cut off by the cut or fill will be made impassable with ditches, dirt piles or other obstructions.

Cross-drains are defined as features constructed in the road surface to divert water from the road. They may be in the form of drive-through dips, open-top box culverts, or waterbars. The following guidelines will help define how frequently structures are needed. However, the actual location of structures will be determined on-the-ground using the spacing guidelines, the physical setting relative to road fills and buffering distance below the diverter, the distance between breaks in grade, and the proximity to road junctions. Drive-through dips are generally not effective on road gradients above eight percent.

Guide 1 - Non-sensitive Soils

Road Gradient (%)	Cross-drain Spacing (feet)
0-3	800
4-6	450
7-10	200
11-15	100
15-20	75
21+	50

Guide 2 - Sensitive Soils*

Road Gradient (%)	Cross-drain Spacing (feet)
0-4	200
5-6	120
7-9	75
10+	50

*Sensitive soils include Lake Misoula sediments, Savenac, Wishard, and True Fissure soils, glacial till, granitics and shales.

Excavated material that is not incorporated in the road prism (waste) may be disposed of by sidecasting or end-hauling as the situation permits. Sidecasting of waste material will be allowed on slopes under 40 percent in non-sensitive areas. Sidecasting of waste material may be allowed in sensitive areas under 40 percent and on slopes 40 percent and greater after approval by the Contracting Officer and the Forest Service. However, this will not be allowed within the buffer strip established for stream courses or in areas of high or extreme soil instability identified in Appendix B.2. below. End haul of surplus materials to mutually approved sites shall occur in such areas.

When flow in a streamcourse is temporarily diverted to accommodate construction or other activities, flow will be restored to the natural course as soon as practical, or in any event, prior to a major runoff season.

Riprap or other erosion control activities will be installed during the low flow season. Possible downstream consequences of activity will be considered.

In areas susceptible to mass movement, and any areas where springs or saturated soils are evident and cannot be avoided, special construction techniques will be used.

C. 7. VISUAL RESOURCES PROTECTION.

Topping maybe required in visually sensitive areas where tower heights cannot be raised or where partial cutting is unfeasible. It usually is applied to foreground or middleground landscapes or to retain wildlife habitat.

Trees will be topped in siutations where removal of one-third or less of the tree crown can maintain distances required from the conductors.

The Forest Service requires variance from standard clearing limits in visually sensitive areas, including areas seen from viewpoints and within 200 feet of visually sensitive trails and roads. It is applied where normal right-of-way vegetation can be retained and where normal right-of-way clearing will not meet the identified visual quality objective.

Tree seedlings would be planted on an 8 foot by 8 foot spacing for 100 feet on each side of roads and trails. Species selected will be in accordance with "List of Tree Species To Be Planted" (below)

This measure will be applied where screening is needed to reduce the undersirable visual impacts that result when the powerline and access roads cross or pass near roads or trails with retention and partial retention visual quality objectives. Screening of right-of-way and towers could maintain visual quality objectives.

Towers would be darkened to reduce visual impacts on landscapes where management criteria require retention or partial retention of visual quality, and on landscapes where visual quality may be modified, but can be seen from visually sensitive viewpoints.

Areas jointly predesignated as visually sensitive and needing conifer plantings, shall be seeded with the appropriate grass mixture at a rate of 50 percent less than prescribed rate for road cuts/fills.

Post-construction inventory of visually sensitive areas will be conducted. Areas needing additional screening will be planted to conifers.

List of Tree Species To Be Planted

Habitat Type	Species By Order of Preference 1	2	3
All Ponderose Pine Habitat types	PP	--	--
Douglas Fir/Bluebunch Wheatgrass or Rough Fescue	PP	DF	--
Douglas Fir/Dwarf Huckleberry, Blue Huckleberry or Twinflower	DF	pp	LPP
Douglas Fir/Ninebark or Snowberry	PP	DF	(LPP)
All Spruce habitat types	DF	S	LPP
Grand Fir/Beargrass	DF	LPP	(PP)
Subalpine Fir/Beargrass or Blue Huckleberry	LPP	DF	(S)
Subalpine Fir/Wood-Rush	S	LPP	--

Note: Those Habitat Types not listed will regenerate naturally to mitigate any visual impact.

C. 8. OTHER

Fire Prevention and Suppression - Industrial operations on forested or grasslands increases the risk for starting a fire. State and Federal laws and regulations have been established to help prevent fire starts. These laws and regulations contain conditions and requirements that are essential to adequate fire prevention and suppression, and will be adhered to by all parties involved in this project.

A Fire Plan is required for clearing and construction operations on Federal lands during the fire season as declared by the State Forester. This plan identifies the person in each organization who has the responsibility and authority to act in matters of fire prevention and suppression and specifies prevention measures to be taken.

A Burning Plan will be required for the contractor's prescribed burning of slash and residues on National Forest System and BLM administered lands resulting from any operation associated with transmission line and access road clearing and construction.

Land Use - Where the right-of-way is near areas with potential for future residential development, BPA will work with city/county planning agencies to establish local policies for reducing future land use conflicts along the right-of-way, especially those that would preclude parallel construction of future lines within existing right-of-way.

Timing Restrictions - No construction activity will be allowed between October 15 and November 30 in the Hawk-Packer timber sale area and further identified in Appendix B. 1. These timing restrictions are necessary to accommodate the operation of a nearby big-game guide and outfitter.

BPA, in all phases of construction and logging operations shall protect, insofar as practicable, all telephone lines, ditches, fences, and other improvements and, if such improvements are damaged by operations under this agreement, shall restore them immediately to a satisfactory condition. All roads and trails designated by Forest Service as needed for fire protection or other purposes shall be kept free of logs, brush, and debris resulting from operations under this agreement. Any road or trail used in connection with this project that is damaged through such use shall be promptly restored to its original condition.

Identify and protect all survey monuments, corners, bearing trees, mining claim monuments, or other markers encountered during preconstruction and construction. If any of these monuments or accessories are identified which may be subject to disturbance, or if any are destroyed or disturbed, immediately notify the Project Coordinator in order that a determination may be made by the proper agency as to the requirement for replacement or remonumentation. Reestablishment will be at the expense of BPA or its contractor(s).

D. AREA SPECIFIC MITIGATING MEASURES

The cooperative Federal/State effort to develop specific mitigating measures and monitoring studies is continuing and will be completed once the final locations and methods of construction are identified in the following areas:

Maxville
Rock Creek
Miller Creek - Blue Mountain
Alberton
St. Regis

The on-going effort is focusing on identification of sites requiring further specific mitigation such as road use management, reducing amounts of access, and adjusting centerline, tower or access road locations to effect mitigation.

When the mitigating needs are finalized, they will be incorporated in this plan by addendum.

SECTION II

PROJECT MONITORING STUDIES

SECTION II PROJECT MONITORING STUDIES

Federal and state agencies have jointly developed specific plans for reducing impacts through the siting of the line and adoption of general and specific mitigating measures and plans for monitoring the effectiveness of the adopted measures. The monitoring plans presented in this report establish specific objectives for: 1) determining the effectiveness of the adopted mitigation measures in reducing fisheries, wildlife, visual, recreation, and land use impacts; 2) identifying where possible additional measures to further reduce wildlife, fisheries, public recreation opportunity and social or land use impacts; and 3) determining appropriate measures for offsetting to the extent possible impacts not mitigated through adoption of measures to protect fisheries, wildlife and recreational opportunity.

Scopes and tasks of the monitoring studies have been discussed in principle with all parties involved with this plan. Precise work program efforts have not, as yet, been formulated. Joint committees comprised of Federal and State specialists in the various monitoring areas are continuing to work to define those monitoring efforts to be adopted.

A. CONSTRUCTION MONITORING

Construction monitoring as defined in this report will include all activities designed to ensure performance of construction associated mitigating measures. The design and construction specifications include the construction-related mitigating measures identified in the Final Environmental Impact Statement, Record of Decision, Forest Service/BPA Project Plan, Final State Report, and this Mitigation and Monitoring Report, except for the Area Specific Mitigating measures identified in Section I. D of this report. These Area specific measures will be included as an addendum when completed.

The Forest Service, Bureau of Land Management, and the State of Montana have been and will continue to be involved in the effort to reduce and avoid impacts in sensitive areas. BPA will work with the agencies involved to ensure inclusion of the appropriate mitigation measures in the constructon specifications.

BPA construction inspectors will enforce the construction specifications. On the land they manage, the Forest Service and BLM will assign a project coordinator and field representatives to work with BPA's construction coordinator and field representatives to monitor and ensure adherence to the project plan and the mitigating measures included in this plan, the final EIS, and Record of Decision. The field representatives of the Forest Service and BPA will work together on a daily basis to resolve issues that arise while monitoring under agreements contained in the project plan. Daily reports kept by the coordinators and inspectors, along with final inspection, will document the construction monitoring and satisfactory completion of construction items.

The State of Montana will assign a project coordinator to work with the BPA construction coordinator and the BLM and Forest Service project coordinators to review the adherence to the mitigating measures. The state will identify critical areas to monitor and the type of construction activities that cause concern on all lands. The BPA construction coordinator will work with the state project coordinator to arrange for field monitoring during appropriate construction phases. The state will conduct independent field checks and maintain field notes to provide a final report to the Board documenting the success of mitigation efforts.

B. REVEGETATION MONITORING

Areas of exposed soil will be identified by Forest Service personnel to receive treatment in order to prevent accelerated erosion, reduce maintenance needs and costs, and to provide cover and feed for wildlife.

Revegation efforts will be field sampled for success by BPA and the State on all land ownerships, the Forest Service will field check all revegetation treatments on National Forest System lands, and BLM on BLM administered lands. Field checks, notes and documentation reports are to be made following the first and third growing seasons after seeding.

The monitoring is to determine the effectiveness of seeding prescriptions. If these are found deficient, follow-up action is prescribed as necessary to obtain satisfactory plant growth on disturbed sites. Revegetation shall be considered successful if there is a 50 percent canopy cover of desirable seeded and volunteer species at the end of the third growing season. Monitoring will also be done at the end of the fifth growing season with a desirable 90 percent canopy cover.

C. ROAD CLOSURE MONITORING

Roads needed for construction and maintenance of the transmission line may cause unregulated use of some resources with the potential that damage might occur. Effective road closures would be necessary to prevent such damage. The effectiveness of the road closures will be evaluated in conjunction with the elk monitoring study described later. The results of both monitoring efforts will be used in the Forest Service travel and planning processes.

A sample of transmission line access roads closed by various methods would be monitored during seasons of highest public use.

Monitoring will be concentrated in the following areas:

Eureka Ridge
Harvey - Eightmile
Tyler - Brewster
Blue Mountain
West Mountain Creek
Savenac - Twin Creeks

All closures will be inventoried using standard Forest Service and BLM travel plan data base forms.

Effectiveness of road closures will be determined through ongoing Forest Service and BLM travel planning procedures, road closure monitoring, public input and regular BPA inspections of the transmission line (two ground and a minimum of six air inspections per year). A special reporting form will be developed in order to specifically relate the road closure effectiveness to this project. Annual summaries of the reporting forms, along with recommended corrective and/or change actions will be exchanged between agencies to provide continuity in the monitoring study. Enforcement of road closures would be implemented consistent with Forest Service regulations.

D. FISHERIES MONITORING

The purpose of this monitoring is to gather baseline data on fish population in 6 to 12 streams for one year and to monitor water quality for five years for use in determining the possible effects on salmonids from road construction and right-of-way clearing. Existing data and study results would then be used in relating construction-caused changes in biological and/or physical stream characteristics to total habitat and population consequences if there is reason to suspect construction related activities are impacting fish populations adversely.

Water quality monitoring on five streams would be used to determine likely water quality changes in streams. Where possible, streams that are being currently monitored would be selected. Four streams have functioning Forest Service monitoring programs, these are: Rock Creek, Randolph Creek, Savenac Creek, and Nemote Creek. One additional stream will be selected after a field review: candidate streams are, Timber, Twin, Harvey, Eightmile and Tyler Creeks. The water quality monitoring program on each stream will be for a period of five years.

E. ELK/HUNTER OPPORTUNITY MONITORING

This monitoring plan is designed to determine how operation of the transmission line and roads will affect elk use of summer/fall security areas, and how hunting opportunities are affected. This will be done by establishing baseline data in the Eightmile/Harvey and Twin/Savenac Creek areas. Monitoring over a five year period will assess impacts caused by roading and operation of the line. Once information has been gathered on transmission line impacts, the decisions related to pending timber sales can be made in a manner to reduce impacts to elk and preserve hunter opportunity. Timing for such studies is detailed elsewhere in this plan.

Monitoring objectives are:

1. Determine the changes in elk use of summer/fall security area habitat due to the construction of access roads and operation of the transmission line.

2. Determine the changes in hunting opportunity and quality caused by operation of the line and access roads.

3. Provide for integration of the elk monitoring study data into future logging plans for specific projects and the forest planning process.

An interagency project management team will be formed to develop, implement, and oversee the monitoring program. The team will be chaired by a BPA representative and membership will be from DNRC, DFWP, Forest Service, and

BLM. Costs for staff participation on the technical committee will be the responsibility of participating agencies.

The first task of the team will be to complete the design of the monitoring program. The team will meet periodically as required to achieve the study objectives.

Data collection and analysis will be done largely by state personnel with funding and technical assistance provided by BPA. The team will evaluate reports and recommendations from study personnel and make periodic reports to the participating agencies.

At the conclusion of the monitoring program the team will assemble a final project report detailing results and recommendations. Any recommendations for additional mitigation and/or compensation for impacts will be forwarded to federal and state agency heads.

F. SOCIOECONOMIC-VISUAL EFFECTS-HIGHWAY TRAVELERS MONITORING

An interagency social sciences oversight committee, chaired by DNRC, will be formed to develop the socioeconomic visual effects and highway travelers monitoring studies. The objective of this effort is to prepare a unified proposal as needed to ensure that the monitoring effort will supply the requisite information within the budget. FS and BLM will be invited to participate on the committee. Oversight committee is responsible for developing the scope of work and budget.

G. TRANSMISSION LINE VISIBILITY MEASUREMENT

This study is to investigate the distance at which the darkened and nondarkened towers between Garrison and Taft Substations become visually intrusive. Included in this study would be the visibility of different tower components (i.e., insulators), and tower visibility during summer and winter.

The objective of this study is to compare the effectiveness of tower darkening in various landscape settings and to evaluate the various tower colors tested.

This study will make no attempt to address the sensitivity of viewers. Trained observers, including participants from the state, would be used, using about 10 optimal, stationary viewpoints on the ground, and establishing a threshold of "barely detectable," through "recognizable," to "highly visible." The study is to be similar in scope to Jones and Jones report "Measuring the Visibility of High Voltage Transmission Facilities."

H. CULTURAL RESOURCE MONITORING

BPA, in accordance with applicable regulations, will monitor, during the construction period, cultural resource properties listed on or eligible for inclusion on the National Register of Historic Places. Monitoring will be in accord with preservation plans that are part of the Memorandum of Agreement entered into by the Montana State Historic Preservation Officer; Advisory Council on Historic Preservation; U.S. Forest Service, Region I; Bureau of Land Management, State Director-Montana; and BPA concerning construction of the Garrison to Taft 500-kV transmission line project. The Cultural Resource Memorandum of Agreement is attached as Appendix C.

The construction contractor will be instructed to notify BPA's contract cultural resources consultants at least one week prior to commencing work in the vicinity of each selected sensitive historic/archeological area to allow the cultural resource consultant sufficient time to schedule a monitoring program for that area.

I. RECREATION MONITORING AT ROCK CREEK

An overhead crossing of the Rock Creek drainage may have significant effects on recreation in the area. Rock Creek has been the focus of many land use debates over the years, and preservation of the drainage's fishing opportunities and natural esthetic qualities have emerged as dual goals in land use planning for the area. Recent public opposition to an overhead crossing has been intense because airway marking needs have increased the potential visibility of the line and caused a number of other alignments to be looked at in this area. Many of these potential crossings were dropped from consideration because they were judged unacceptable for either aeronautical safety or they would increase land use/recreation/visual impacts over the proposed overhead alignment.

Nearly all anglers, who comprise a large portion of recreational users of Rock Creek, enter the drainage from the north. If built along the federally-preferred centerline, transmission line towers would be visible from the Interstate, Rock Creek Lodge, Ekstrom's resort, and the Valley of the Moon ranch. The marker balls strung on the conductors to increase visibility to aircraft would be visually prominent, with the glossy orange, yellow, and white spheres at the mouth of the creek--most visitors' first impression of the area.

Given the potential level of impact and the public and agency concern, the transmission line's effects on recreation will be monitored carefully. A survey of visitors to the Rock Creek area would estimate the level and type of recreation impacts. Survey responses would be compared to data collected by the Department of Fish, Wildlife and Parks in its recent mail survey of anglers in Montana.

The results would quantify the level and types of impacts to recreation, pinpointing any additional mitigation efforts needed, and helping future siting efforts by comparing anticipated with actual impacts in a recreational setting.

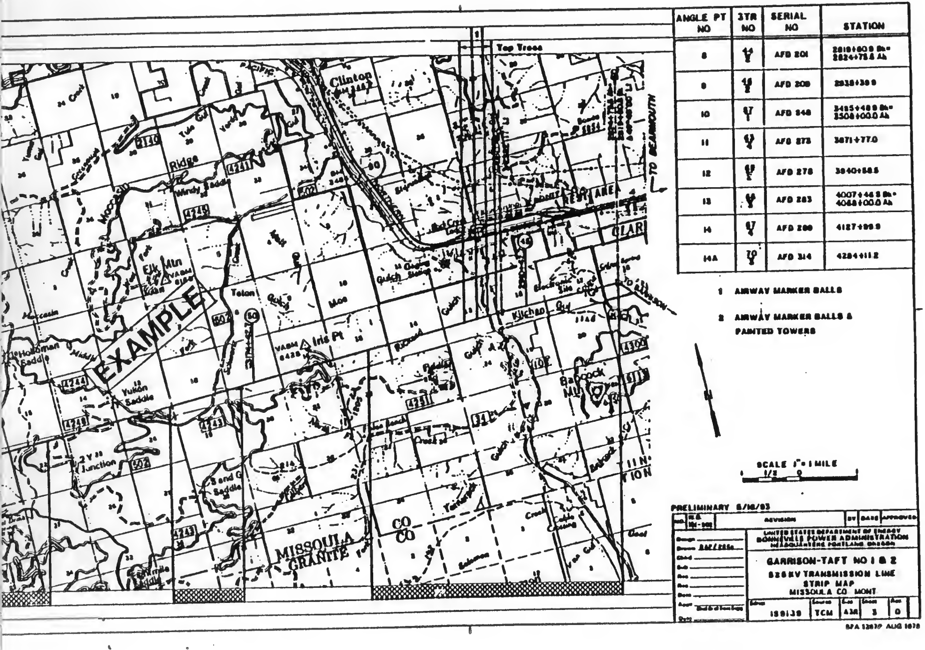
The Findings and Their Application

Reports will be prepared and issued to the steering committee after each of the three research phases. The first two reports will include suggestions for modifying the subsequent phase, if necessary. The survey is essential to accurately quantify recreational impacts and to aid future siting efforts.

APPENDICES

Some of the information in the appendices is incomplete at this time and subject to ongoing refinement by the involved federal and state agencies. Once the data is documented, it will be added to or modify existing information in this mitigation and monitoring plan. Items undergoing refinement include the route maps which will show details such as construction timing closures for wildlife protection, areas of road obliteration and so forth. Additionally, the Forest Service is updating information contained in the road and tower matrices which may alter those now included.

APPENDIX A. ROUTE MAP



ANGLE PT NO	3TR NO	SERIAL NO	STATION
8	44	AFD 201	2819+60.9 Bk= 2824+75.8 Ah
9	46	AFD 209	2835+39.9
10	[illegible]	AFD 248	3485+48.9 Bk= 3508+00.0 Ah
11	43	AFD 273	3871+77.0
12	45	AFD 278	3940+58.5
13	46	AFD 283	4007+46.8 Bk= 4068+00.0 Ah
14	47	AFD 290	4127+96.9
14A	70	AFD 314	4284+11.2

1 AIRWAY MARKER BALLS

2 AIRWAY MARKER BALLS & PAINTED TOWERS

PRELIMINARY 6/16/83

UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
HEADQUARTERS PORTLAND OREGON

GARRISON-TAFT NO 1 & 2
500 KV TRANSMISSION LINE
STRIP MAP
MISSOULA CO. MONT

159138	TCM	A3R	3	0

BPA 12870 AUG 1978

APPENDIX B. 1 CLEARING

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BPA*STIPS(1).CLEARING(2)
                GARRISON-SPOKANE  TRANSMISSION PROJECT                                         JULY 1, 1983
                          GARRISON-TAFT SEGMENT
                        SUMMARY OF CLEARING STIPULATIONS


                              MISSOULA RANGER DISTRICT


       STATIONING          TREE  CLEAR  PLANT  100%   FENCE  TIMING  TIMING  TIMING TRAIL    SEED  SENSIT  REMARKS
                           TOPP  VAR    TREES  SLASH         RESTRC  RESTRC  RESTRC PROTECT  MIX   SOIL
                                 ANCE          DISP.         WR      MA21    TS
       >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
       >>>>>>>>>>>>


       2392+00              -     -      -      -     300'    -       -       -      -        -     -
       2396-2489+00         -     -      -      -      -      -       -       -      -        2     -
       2488+00              -     -      -      -     200'    -       -       -      -        -     -      AP 7 @ 2488+97AH
       2489+00              -     -      -      -     200'    -       -       -      -        -     -
       2489-2490+00         -     -      -     YES     -      -       -       -      -        -     -
       2489+00-2530+00      -     -      -      -      -      -       -       -      -        3     -
       2530+00-2573+00      -     -      -      -      -      -       -       -      -        2     -
       2573+00-2600+00      -     -      -      -      -      -       -       -      -        3     -
       2600+00-2755+00      -     -      -      -      -      -       -       -      -        2     -
       2618+00-2640+00      -     -      -      -      -     YES      -       -      -        -     -
       2684+00-2685+00      -     -      -     YES     -      -       -       -      -        -     -
       2688+00-2699+00      -     -      -     YES     -      -       -       -      -        -     -
       2727+00-2728+00      -     -      -     YES     -      -       -       -      -        -     -
       2755+00-2820+00      -     -      -      -      -      -       -       -      -        1     -
       2758+00-2759+00      -     -      -     YES     -      -       -       -      -        -     -      AP 8 @ 2824+75.6AH
       4420+00-4464+00      -    YES     -      -      -      -       -       -      -        2     -
       4463+00-4465+00      -     -     YES    YES     -      -       -       -      -        -     -
       4464+00-4662+00      -    YES     -      -      -      -       -       -      -        3     -      AP 15 @ 4538+01.9AH
       4557+00-4559+00      -     -     YES    YES     -      -       -       -      -        -     -
       4569+00-4571+00      -     -     YES    YES     -      -       -       -      -        -     -
       4593+00-OFF ROW      -     -      -      -     200'    -       -       -      -        -     -
       4662+00-4714+00      -     -      -      -      -      -       -       -      -        2     -
       4714+00-4806+00      -     -      -      -      -     YES      -       -      -        1     -
       4806+00-4881+00      -    YES     -      -      -      -       -       -      -        2     -
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                            NINEMILE  RANGER  DISTRICT                                                 JULY 1, 1983


STATIONING        TREE CLEAR   PLANT  100%     FENCE  TIMING  TIMING   TIMING TRAIL    SEED   SENSIT   REMARKS
                  TOPP VAP     TREES  SLASH           RESTRC  RESTRC   RESTRC PROTECT  MIX    SOIL
                       ANCE           DISP.           WR      MA21     TS
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>>>>>>>>>>>>


5167+50-5184+50   -    -       -      -        -      -       -        -      -        2      -
5184+50-5190+50   -    -       -      -        -      -       -        -      -        2      -
5190+50-5221+75   -    -       -      -        -      -       -        -      -        2      -
5221+75-5243+90   -    -       -      -        -      -       -        -      -        2      -
5241+50-5243+50   -    -       YES    YES      -      -       -        -      -        2      -
5265+00-5270+50   -    -       -      -        -      YES     -        -      -        2      -
5270+50-5290+50   -    -       -      -        -      YES     -        -      -        2      -
5290+50-5307+00   -    -       -      -        -      YES     -        -      -        2      -
5307+00-5323+50   -    -       -      -        -      YES     -        -      -        2      -
5323+50-5338+50   -    -       -      -        -      YES     -        -      -        1      -
5338+50-5358+50   -    -       -      -        -      YES     -        -      -        1      -
5358+50-5362+50   -    -       -      -        -      YES     -        -      -        1      -
5362+50-5365+00   YES  -       -      -        -      YES     -        -      -        1      -
5362+50-5371+50   -    -       -      -        -      YES     -        -      -        1      -
5371+50-5385+50   -    -       -      -        -      YES     -        -      -        1      -
5385+50-5398+00   YES  -       YES    YES      -      -       -        -      -        2      -
5412+00-5414+50   -    -       -      -        -      YES     -        -      -        1      -        AP 17 @ 5402+56.7
5414+00-5415+00   YES  -       -      -        -      YES     -        -      -        1      -
5414+50-5429+50   -    -       -      -        -      YES     -        -      -        1      -
5428+50-5441+50   -    -       -      -        -      YES     -        -      -        1      -
5434+50-5436+50   YES  -       -      -        -      YES     -        -      -        1      -
5441+50-5452+50   -    -       -      YES      -      YES     -        -      -        1      -
5452+50-5456+50   -    -       -      -        -      YES     -        -      -        1      -        AP 18 @ 5543+00AH
5549+00-5558+00   -    -       -      -        -      YES     -        -      -        1      -
5558+00-5572+00   -    -       -      -        -      YES     -        -      -        1      -
5572+00-5586+00   -    -       -      -        -      YES     -        -      -        1      -
5586+00-5613+00   -    -       -      -        -      YES     -        -      -        2      -
5600+00-5613+00   YES  -       -      -        -      YES     -        -      -        2      -
5621+00-5624+00   -    -       -      -        -      YES     -        -      -        2      -
5624+00-5637+50   -    -       -      -        -      YES     -        -      -        2      -
5637+50-5651+00   -    -       -      -        -      -       -        -      -        2      -
5651+00-5662+00   -    -       -      -        -      YES     -        -      -        2      -
5662+00-5667+25   -    -       -      -        -      YES     -        -      -        2      -
5667+25-5682+00   -    -       -      -        -      -       -        -      -        2      -
5682+00-5688+50   -    -       -      -        -      -       -        -      -        3      -
5688+50-5697+50   -    -       -      -        -      -       -        -      -        3      -
5697+50-5702+00   -    -       -      -        -      -       -        -      -        3      -
5702+00-5735+00   -    -       -      -        -      -       -        -      -        3      -
5735+00-5738+99   -    -       -      -        -      -       -        -      -        3      -
5738+99-5752+50   -    -       -      -        -      -       -        -      -        2      -        AP 19 @ 5738+99.5
5752+50-5762+00   -    -       -      -        -      -       -        -      -        2      -
5762+00-5770+25   -    -       -      -        -      -       -        -      -        2      -
5770+25-5782+00   -    -       -      -        -      -       -        -      -        2      -
5782+00-5787+00   -    -       -      -        -      -       -        -      -        2      -
5787+00-5793+75   -    -       -      -        -      -       -        -      -        2      -
5793+75-5821+50   -    -       -      -        -       ES     -        -      -        2      -
```

NINEMILE RANGER DISTRICT JULY 1, 1983

STATIONING	TREE TOPP	CLEAR VAR ANCE	PLANT TREES	100* SLASH DISP.	FENCE	TIMING RESTRC WR	TIMING RESTRC MA21	TIMING RESTRC TS	TRAIL PROTECT	SEED MIX	SENSIT SOIL	REMARKS
>>												
5821+50-5825+50	-	-	-	-	-	YES	-	-	-	2	-	
5825+50-5842+00	-	-	-	-	-	YES	-	-	-	2	-	
5842+00-5847+00	-	-	-	-	-	YES	-	-	-	2	-	
5847+00-5858+00	-	-	-	-	-	YES	-	-	-	2	-	
5858+00-5892+25	-	-	-	-	-	YES	-	-	-	2	-	
5892+25-5934+00	-	-	-	-	-	YES	-	-	-	2	-	
5934+00-5937+50	-	-	-	-	-	YES	-	-	-	2	-	
5937+50-5945+50	-	-	-	-	-	YES	-	-	-	2	-	
5945+50-5950+30	-	-	-	-	-	YES	-	-	-	2	-	
5950+30-5980+00	-	-	-	-	-	YES	-	-	-	2	-	
5980+00-5995+25	-	-	-	-	-	-	-	-	-	2	-	
5995+25-6003+50	-	-	-	-	-	-	-	-	-	2	-	
6003+50-6038+25	-	-	-	-	-	-	-	-	-	2	-	
6038+25-6044+50	-	-	-	-	-	-	-	-	-	2	-	
6044+50-6083+63.4	-	-	-	-	-	-	-	-	-	2	-	AP 20 @ 6093+63.4
6083.4-6089+25	-	-	-	-	-	-	-	-	-	2	-	
6089+25-6121+50	-	-	-	-	-	-	-	-	-	2	-	
6112+00-6116+00	-	-	YES	YES	-	-	-	-	-	1	-	
6121+50-6145+50	-	-	-	-	-	-	-	-	-	2	-	
6145+50-6164+50	-	-	-	-	-	YES	-	-	-	2	-	
6164+50-6178+00	-	-	-	-	-	YES	-	-	-	2	-	
6178+00-6199+25	-	-	-	-	-	YES	-	-	-	2	-	
6197+00-6199+25	-	-	YES	YES	-	-	-	-	-	2	-	
6230+50-6231+50	-	-	-	-	-	-	-	-	-	2	-	
6231+50-6240+0.24	-	-	-	-	-	-	-	-	-	2	-	AP 21 @ 6239+26.7

SUPERIOR RANGER DISTRICT JULY 1, 1983

STATIONING	TREE TOPP	CLEAR V/R ANCE	PLANT TREES	100% SLASH DISP.	FENCE	TIMING RESTRC WR	TIMING RESTRC MA21	TIMING RESTRC TS	TRAIL PROTECT	SEED MIX	SENSIT SOIL	REMARKS
6239+00-6322+00	-	-	-	-	-	YES	-	-	-	-	-	
6239+27-6242+00	-	-	-	-	-	-	-	-	-	1	-	
6242+00-6256+00	-	-	-	-	-	-	-	-	-	2	-	
6252+00-6255+00	-	-	YES	-	(ELK WALLOW@6254+25)			-	-	-	YES	
6256+00-6266+00	-	-	-	-	-	-	-	-	-	1	-	
6266+00-6273+00	-	-	-	-	-	-	-	-	-	2	-	
6273+00-6283+00	-	-	-	-	-	-	-	-	-	1	-	
6283+00-6387+00	-	-	-	-	-	-	-	-	-	2	-	AP 21A @ 6375+78.5
6353+00-6450+00	-	-	-	-	-	YES	-	-	-	-	-	
6357+00-6361+00	-	-	-	YES	-	-	-	-	-	-	-	
6386+00-6388+00	-	-	-	YES	-	-	-	-	-	-	-	
6387+00-6418+75	-	-	-	-	-	-	-	-	-	1	-	
6435+50-6437+00	-	-	-	YES	-	-	-	-	-	-	-	
6445+50-6449+50	-	-	-	YES	-	-	-	-	-	-	-	
6583+00-6606+00	-	-	-	-	-	YES	-	-	-	2	-	AP 22 @ 6583+03.2AH
6604+00-6611+00	-	-	-	-	-	-	-	-	-	-	-	
6606+00-6610+00	-	-	-	-	-	-	-	-	-	3	-	
6609+86-6611+86	-	-	-	YES	-	-	-	-	-	-	-	
6610+00-6747+00	-	-	-	-	-	-	-	-	-	2	-	
6612+00-6640+00	-	-	-	-	-	YES	-	-	-	-	-	
6635+30-6637+30	-	-	-	YES	-	-	-	-	-	-	-	
6746+00-6790+00	-	-	-	-	-	YES	-	-	-	-	-	
6747+00-6749+00	-	-	-	YES	-	-	-	-	-	-	-	
6747+00-6751+00	-	-	-	-	-	-	-	-	-	3	-	
6751+00-6753+00	-	-	-	YES	-	-	-	-	-	-	-	
6751+00-6797+64	-	-	-	-	-	-	-	-	-	2	-	AP 23 @ 6797[64
6760+50-6762+50	-	-	-	YES	-	-	-	-	-	-	-	
6797+64-6870+00	-	-	-	-	-	-	-	-	-	2	-	
6837+00-6842+00	-	-	-	-	-	YES	-	-	-	-	-	
6870+00-6881+00	-	-	-	-	-	-	-	-	-	4	-	
6881+00-6894+00	-	-	-	-	-	-	-	-	-	3	-	
6894+00-6949+00	-	-	-	-	-	-	-	-	-	2	-	
6904+00-6912+00	-	-	-	-	-	YES	-	-	-	-	-	
6913+75-6915+75	-	-	-	YES	-	-	-	-	-	-	-	
6947+00-6975+00	-	-	-	-	-	YES	-	-	-	-	-	
6948+00-6952+50	-	-	-	YES	-	-	-	-	-	-	-	
6949+00-6969+00	-	-	-	-	-	-	-	-	-	3	-	
6969+00-7024+00	-	-	-	-	-	-	-	-	-	2	-	
6969+70-6973+20	-	-	-	YES	-	-	-	-	-	-	-	
6971+00-7023+00	-	-	-	-	-	YES	-	-	-	-	-	
7023+00-7028+00	-	-	-	YES	-	-	-	-	-	-	-	
7024+00-7035+00	-	-	-	-	-	-	-	-	-	3	-	

SUPERIOR RANGER DISTRICT

JULY 1, 1983

STATIONING	TREE TOPP	CLEAR VARANCE	PLANT TREES	100Y SLASH DISP.	FENCE	TIMING RESTRC WR	TIMING RESTRC MA21	TIMING RESTRC TS	TRAIL PROTECT	SEED MIX	SENSIT SOIL	REMARKS
7035+00-7066+00	-	-	-	-	-	-	-	-	-	2	-	AP 24 @ 7051+66.3
7038+80-7040+80	-	-	-	YES	-	-	-	-	-	-	-	
7057+00-7093+00	-	-	-	-	-	YES	-	-	-	-	-	
7066+00-7071+00	-	-	-	YES	-	-	-	-	-	-	-	
7066+00-7110+00	-	-	-	-	-	-	-	-	-	1	-	
7075+50-7088+00	-	-	-	YES	-	-	-	-	-	-	-	
7097+00-7104+00	-	-	-	-	-	YES	-	-	-	-	-	
7110+00-7124+00	-	-	-	-	-	-	-	-	-	2	-	
7119+50-7121+50	-	-	-	YES	-	-	-	-	-	-	-	
7124+15-7126+15	-	-	-	YES	-	-	-	-	-	-	-	
7196+30-7206+30	-	-	-	YES	-	-	-	-	-	-	-	
7238+00-7253+00	-	-	-	-	-	-	-	-	-	2	-	
7243+00-7256+00	-	-	-	-	-	YES	-	-	-	-	-	
7250+50-7254+50	-	-	-	YES	-	-	-	-	-	-	-	
7257+50-7259+50	-	-	-	YES	-	-	-	-	-	-	-	
7268+00-7277+29	-	-	-	-	-	-	-	-	-	3	-	AP 25 @ 7277+29.0
7269+00-7278+00	-	-	-	-	-	YES	-	-	-	-	-	
7277+29-7386+00	-	-	-	-	-	-	-	-	-	2	-	
7278+00-7296+00	-	-	-	-	-	YES	-	-	-	-	-	
7347+90-7349+90	-	-	-	YES	-	-	-	-	-	-	-	
7351+00-7422+00	-	-	-	-	-	YES	-	-	-	-	-	
7386+00-7393+00	-	-	-	-	-	-	-	-	-	3	-	
7393+00-7464+00	-	-	-	-	-	-	-	-	-	2	-	AP 26 @ 7449+99.2AH
7464+00-7477+00	-	-	-	-	-	-	-	-	-	1	-	
7466+00-7477+00	-	-	-	-	-	YES	-	-	-	-	-	
7477+00-7487+00	-	-	-	-	-	-	-	-	-	2	-	
7487+00-7490+00	-	-	-	-	-	-	-	-	-	3	-	
7490+00-7513+00	-	-	-	-	-	-	-	-	-	2	-	
7491+50-7493+50	-	-	-	YES	-	-	-	-	-	-	-	
7505+00-7526+00	-	-	-	-	-	YES	-	-	-	-	-	
7513+00-7527+00	-	-	-	-	-	-	-	-	-	1	-	
7527+00-7592+00	-	-	-	-	-	-	-	-	-	2	-	
7576+25-7578+25	-	-	-	YES	-	-	-	-	-	-	-	
7592+00-7606+00	-	-	-	-	-	-	-	-	-	3	-	
7606+00-7702+00	-	-	-	-	-	-	-	-	-	2	-	AP 27 @ 7649+50
7613+00-7693+00	-	-	-	-	-	YES	-	-	-	-	-	AP 28 @ 7658+63
7618+00-7620+00	-	-	-	YES	-	-	-	-	YES	-	-	AP 29 @ 7693+32.2
7643+00-7695+00	POSS	POSS	-	-	-	-	-	-	-	-	-	
7659+50-7661+00	-	-	POSS	-	-	-	-	-	-	-	-	

SUPERIOR RANGER DISTRICT JULY 1, 1983

STATIONING	TREE TOPP	CLEAR VAR ANCE	PLANT TREES	100% SLASH DISP.	FENCE	TIMING RESTRC WR	TIMING RESTRC MA21	TIMING RESTRC TS	TRAIL PROTECT	SEED MIX	SENSIT SOIL	REMARKS
7676+00-7700+00	-	-	-	-	-	-	YES	-	-	-	-	
7692+00-7695+00	-	-	YES	-	-	-	-	-	-	-	-	
7693+00-7694+00	POSS	POSS	-	-	-	YES	-	-	-	2	-	
7696+00-7698+00	-	-	-	YES	-	-	-	-	-	-	-	
7714+00-7716+00	-	-	POSS	YES	-	-	-	-	-	-	-	AP 30 @ 7720+00AH
7777+92-7930+00	POSS	POSS	-	-	-	-	-	-	-	-	-	AP 31 @ 7777+92.2
7827+50-7829+50	-	-	-	YES	-	-	-	-	-	-	-	
7846+00-7923+00	-	-	-	-	-	-	-	-	-	2	-	AP 32 @ 7890+45.9
7846+00-7954+00	-	-	-	-	-	YES	-	-	-	-	-	
7880+00-7897+00	-	-	-	-	-	YES	-	-	-	-	-	
7902+00-7915+00	-	-	-	-	-	YES	-	-	-	-	-	
7923+00-7966+00	-	-	-	-	-	-	-	-	-	3	-	
7966+00-7997+00	-	-	-	-	-	-	-	-	-	2	-	
7987+00-8001+00	POSS	POSS	-	-	-	-	-	-	-	-	-	
7993+00-7995+00	-	-	-	YES	-	-	-	-	-	-	-	
7994+00	-	-	-	-	-	-	-	-	YES	-	-	
7997+00-8012+00	-	-	-	-	-	-	-	-	-	3	-	
8006+00-8008+00	-	-	-	YES	-	-	-	-	-	-	-	
8012+00-8085+00	-	-	-	-	-	-	-	-	-	2	-	
8026+50-8028+50	-	-	-	YES	-	-	-	-	-	-	-	
8030+00-8044+00	POSS	POSS	-	-	-	-	-	-	-	-	-	
8033+50-8035+50	-	-	-	YES	-	-	-	-	-	-	-	
8085+00-8099+00	-	-	-	-	-	-	-	-	-	3	-	
8099+00-8113+31	-	-	-	-	-	-	-	-	-	2	-	
8140+04-8151+00	-	-	-	-	-	-	-	-	-	2	-	AP 33 @ 8140+04.9AH
8151+00-8158+00	-	-	-	-	-	-	-	-	-	3	-	
8158+00-8169+00	-	-	-	-	-	-	-	-	-	2	-	
8166+00-8168+00	-	-	-	YES	-	-	-	-	-	-	-	
8169+00-8178+00	-	-	-	-	-	-	-	-	-	3	-	
8177+00-8180+00	-	-	-	YES	-	-	-	-	-	-	-	
8178+00-8193+00	-	-	-	-	-	-	-	-	-	2	-	
8193+00-8218+00	-	-	-	-	-	-	-	-	-	3	-	
8198+00-8400+00	POSS	POSS	-	-	-	-	-	-	-	-	-	
8218+00-8250+00	-	-	-	-	-	-	-	-	-	2	-	
8250+00-8271+00	-	-	-	-	-	-	-	-	-	3	-	
8271+00-8303+00	-	-	-	-	-	-	-	-	-	2	-	
8303+00-8309+00	-	-	-	-	-	-	-	-	-	3	-	(NO AP 34)
8309+00-8509+00	-	-	-	-	-	-	-	-	-	2	-	AP 35 @ 8400+00AH
8388+00-8398+00	-	-	-	-	-	-	YES	-	-	-	-	
8390+00-8392+00	-	-	-	YES	-	-	-	-	-	-	-	
8400+00-8473+00	-	-	-	-	-	YES	-	-	-	-	-	
8406+00-8410+00	-	-	-	YES	-	-	-	-	-	-	-	
8419+00-8421+00	-	-	-	-	-	-	-	-	-	-	YES	
8466+00-8468+00	-	-	-	YES	-	-	-	-	-	-	-	
8470+00-8472+00	-	-	-	-	-	-	-	-	-	-	YES	

SUPERIOR RANGER DISTRICT JULY 1, 1983

STATIONING	TREE TOPP	CLEAR VARIANCE	PLANT TREES	100% SLASH DISP.	FENCE	TIMING RESTRC WR	TIMING RESTRC MA21	TIMING RESTRC TS	TRAIL PROTECT	SEED MIX	SENSIT SOIL	REMARKS
>>												
8502+00-8503+00	-	-	-	-	-	-	-	-	-	-	YES	
8509+00-8523+00	-	-	-	-	-	-	-	-	-	3	-	
8523+00-8535+00	-	-	-	-	-	-	-	-	-	2	-	
8535+00-8586+00	-	-	-	-	-	-	-	-	-	3	-	
8540+00-8547+50	-	-	-	-	-	-	-	-	-	-	YES	
8568+50	-	-	-	-	800'	-	-					
8568+78-8570+78	-	-	-	YES	-	-	-	-	-	-	-	
8571+00-8675+00	-	-	-	-	-	-	YES	-	-	-	-	
8585+00-8578+00	-	-	-	-	-	-	-	-	-	-	YES	
8586+00-8605+03	-	-	-	-	-	-	-	-	-	2	-	AP 36 @ 8605+02.9
8605+03-8629+50	-	-	-	-	-	-	-	-	-	3	-	
8615+00-8623+00	-	-	-	-	-	-	-	-	-	-	YES	
8659+00-8667+00	-	-	-	-	-	-	-	-	-	2	-	
8667+00-8675+00	-	-	-	-	-	-	-	-	-	3	-	
8675+00-8700+00	-	-	-	-	-	-	-	-	-	2	-	
8682+00-8713+00	-	-	-	-	-	-	-	-	-	-	YES	
8700+00-8781+00	-	-	-	-	-	-	-	-	-	3	-	
8720+00-VICINITY	-	-	-	-	-	-	-	-	-	-	YES	
8724+00-8728+00	-	-	-	YES	-	-	-	-	-	-	-	
8781+00-8819+00	-	-	-	-	-	-	-	-	-	2	-	
8784+00-8802+00	-	-	-	YES	-	-	-	-	YES	-	-	
8792+00-9008+00	-	-	-	-	-	-	-	YES(#23)	-	-	-	
8795+00-8798+00	-	-	-	-	-	-	-	-	-	-	YES	
8819+00-8829+00	-	-	-	-	-	-	-	-	-	3	-	
8829+00-8843+00	-	-	-	-	-	-	-	-	-	2	-	
8843+00-8852+00	-	-	-	-	-	-	-	-	-	3	YES	
8852+00-8843+00	-	-	-	-	-	-	-	-	-	-	YES	
8852+00-8858+63	-	-	-	-	-	-	-	-	-	2	-	
8879+85-8888+00	-	-	-	-	-	-	-	-	-	3	-	AP 37 @ 8879+85.3AH
8888+00-8917+00	-	-	-	-	-	-	-	-	-	2	-	
8917+00-8930+00	-	-	-	-	-	-	-	-	-	3	-	
8930+00-8940+00	-	-	-	-	-	-	-	-	-	2	-	
8940+00-8943+00	-	-	-	-	-	-	-	-	-	-	YES	
8940+00-8969+00	-	-	-	-	-	-	-	-	-	3	-	
8969+00-8982+00	-	-	-	-	-	-	-	-	-	2	-	
8976+00-8978+00	-	-	-	YES	-	-	-	-	-	-	-	
8982+00-8997+00	-	-	-	-	-	-	-	-	-	3	-	
8997+00-9078+00	-	-	-	-	-	-	-	-	-	2	-	
9013+00-9035+60	-	-	-	-	-	-	-	-	-	-	YES	
9058+50-9063+90	-	-	-	-	-	-	-	-	-	-	YES	
9064+00-9066+00	-	-	-	YES	-	-	-	-	-	-	-	
9078+00-9091+00	-	-	-	-	-	-	-	-	-	3	-	
9091+00-9107+00	-	-	-	-	-	-	-	-	-	2	-	
9093+00-9117+00	-	-	-	-	-	-	-	-	-	-	YES	

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9107+00-9118+00   -       -      -      -        -      -       -       -       -         3      -

                            SUPERIOR RANGER DISTRICT                                                    JULY 1, 1983

STATIONING       TREE   CLEAR  PLANT   100%    FENCE   TIMING  TIMING  TIMING TRAIL     SEED   SENSIT   REMARKS
                 TOPP   V/R    TREES   SLASH           RESTRC  RESTRC  RESTRC PROTECT   MIX    SOIL
                        ANCE           DISP.           WR      MA21    TS
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>



9118+00-9167+00   -       -      -      -        -      -       -       -       -         2      -      AP 38 @ 9133+37.3
9133+00-9154+00   -       -      -      -        -      -       -       -       -         -     YES
9144+00-9153+00   YES     -      -      YES      -      -       -       -       -         -      -
9167+00-9242+16   -       -      -      -        -      -       -       -       -         3      -      AP 39 @ 9242+16.5
9182+00-9185+00   -       -      -      -        -      -       -       -       -         -     YES
9198+00-9229+00   -       -      -      -        -      -       -       -       -         -     YES
NO DATA WEST OF  A P 39

@PRT,CS BPA*STIPS.  MITIGATION/
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BPA*STIPS(1).MITIGATION(1)
                                       BPA
                      SUMMARY OF CLEARING STIPULATIONS


                          MISSOULA RANGER DISTRICT
                                 MAY,1983


STATIONING      TREE CLEAR PLANT  100%   FENCE TIMING TIMING TIMING CUT/FIL SEED
                TOPP VARI- TREES   SLASH       RESTRC RESTRC RESTRC RAMPS   MIX
                     ANCE          DISP.       WR     MA21   TS
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>


2392+00                                   300'
2396-2489+00                                                                  2
2488+00                                   200'
2489+00                                   200'
2489-2490+00                       YES
2489+00-2530+00                                                               3
2530+00-2573+00                                                               2
2573+00-2600+00                                                               3
2600+00-2755+00                                                               2
2618+00-2640+00                                  YES
2684+00-2685+00                    YES
2688+00-2689+00                    YES
2727+00-2728+00                    YES
2755+00-2820+00                                                               1
2758+00-2759+00                    YES
4420+00-4464+00        YES                                                    2
4463+00-4465+00              YES   YES
4464+00-4662+00        YES                                                    3
4557+00-4559+00              YES   YES
4569+00-4571+00              YES   YES
4593+00-OFF ROW                           200'
4662+00-4714+00                                                               2
4714+00-4806+00                                  YES                          1
4806+00-4881+00        YES                                                    2
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                                      BPA
                      SUMMARY OF CLEARING STIPULATIONS


                          NINEMILE RANGER DISTRICT
                                  MAY 1983

STATIONING       TREE CLEAR PLANT  100%  FENCE TIMING TIMING TIMING CUT/FIL SEED
                 TOPP VAR - TREES  SLASH       RESTRC RESTRC RESTRC RAMPS    MIX
                      ANCE         D SP.       WR     MA21   TS
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>


5167+50-5184+50                                                               2
5184+50-5190+50                                                               2
5190+50-5221+75                                                               2
5221+75-5243+90                                                               2
5241+50-5243+50             YES    YES                                        2
5265+00-5270+50                                YES                            2
5270+50-5290+50                                YES                            2
5290+50-5307+00                                YES                            2
5307+00-5323+50                                YES                            2
5323+50-5338+50                                YES                            1
5336+50-5358+50                                YES                            1
5358+50-5362+50                                YES                            1
5362+50-5365+00  YES                           YES                            1
5362+50-5371+50                                YES                            1
5371+50-5385+50                                YES                            1
5385+50-5398+00  YES        YES    YES                                        2
5412+00-5414+50                                YES                            1
5414+00-5415+00  YES                           YES                      ?      1
5414+50-5428+50                                YES                            1
5428+50-5441+50                                YES                            1
5434+50-5436+50  YES                           YES                            1
5441+50-5452+50                    YES         YES                            1
5452+50-5456+50                                YES                            1
5549+00-5558+00                                YES                            1
5558+00-5572+00                                YES                            1
5572+00-5586+00                                YES                            1
5586+00-5613+00                                YES                            2
5600+00-5613+00  YES                           YES                            2
5621+00-5624+00                                YES                            2
5624+00-5637+50                                YES                            2
5637+50-5651+00                                                               2
5651+00-5662+00                                YES                            2
5662+00-5667+25                                                               2
5667+25-5682+00                                                               2
5682+00-5688+50                                                               3
5688+50-5697+50                                                               3
5697+50-5702+00                                                               3
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114   5702+00-5735+00                                      3
115   5735+00-5738+99                                      3
116   5738+99-5752+50                                      2
117   5752+50-5762+00                                      2
118   5762+00-5770+25                                      2
119   5770+25-5782+00                                      2
120   5782+00-5787+00                                      2
121   5787+00-5793+75                                      2
122   5793+75-5821+50                    YES               2
123   5821+50-5825+50                    YES               2
124   5825+50-5842+00                    YES               2
125   5842+00-5847+00                    YES               2
126   5847+00-5858+00                    YES               2
127   5858+00-5892+25                    YES               2
128   5892+25-5934+00                    YES               2
129   5934+00-5937+50                    YES               2
130   5937+50-5945+50                    YES               2
131   5945+50-5950+30                    YES               2
132   5950+30-5980+00                    YES               2
133   5980+00-5995+25                                      2
134   5995+25-6003+50                                      2
135   6003+50-6038+25                                      2
136   6038+25-6044+50                                      2
137   6044+50-6083+63.4                                    2
138   6083.4-6089+25                                       2
139   6089+25-6121+50                                      2
140   6112+00-6116+00         YES    YES                   1
141   6121+50-6145+50                                      2
142   6145+50-6164+50                    YES               2
143   6164+50-6178+00                    YES               2
144   6178+00-6199+25                    YES               2
145   6197+00-6199+25         YES    YES                   2
146   6230+50-6231+50                                      2
147   6231+50-6240+0.24                                    2

@PRT,CS BPA*STIPS. ROAD/
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APPENDIX B. 2. ROADS

BPA*STIPS(1).ROAD(4)

GARRISON-SPOKANE TRANSMISSION PROJECT JULY 1, 1983
GARRISON-TAFT SEGMENT
SUMMARY OF ROAD STIPULATIONS

MISSOULA RANGER DISTRICT

ROAD NO	SPEC STRM XING	TIME REST WR	PERMANENT CLOSURE	ROAD OBLIT	GATE CAT-TLE GRD BAPR	ROAD SURF	PLANT TREES	ESCAPE RAMPS	TRAIL ACCES	FENCE	SCARIFY SEED RD SURFACE	SEED MIX	REMARKS
354	-	-	-	-	G	-	-	-	-	-	-	2	G @JCT 354-TR21,SEC18
4321	-	-	-	-	-	-	-	-	-	-	11+00-54+70	2	-
17888	-	-	-	-	-	-	-	-	-	-	0+00-26+30	2	-
C/L	-	-	2396-2407	-	B	-	-	-	-	-	-	2	B @2396(C/LSTA)
36-AR-4	-	-	-	ALL	-	-	-	-	-	-	-	2	CONSTR.RD ONLY
2436	3	-	-	-	-	-	-	-	-	-	0+00-17+11	2	-
38-AR-1	-	-	-	0+00-12+03	-	-	-	-	-	-	-	2	-
C/L	-	-	-	2489-2493	-	-	-	-	-	-	-	3	C/L STA'S
4291	1	-	-	-	G	-	-	-	-	-	ALL NEW C.	3	G @RD JCT
17881	2	-	-	-	-	-	-	-	-	-	ALL	3	-
17882	-	-	-	-	-	-	-	-	-	-	ALL	2	-
17883	-	-	-	-	G	-	-	-	-	-	ALL	3	G @30+60
39-AR-1	-	-	-	0+00-19+20	-	-	-	-	-	-	-	3	-
17884	-	-	-	-	G	-	-	-	-	-	ALL	3	G @ 82+82
17886	YES	YES	-	-	-	-	-	-	-	-	ALL	2	-
17885	-	-	-	0+00-11+00	-	-	-	-	-	-	ALL	2	-
42-AR-1	-	-	-	0+00-12+00	-	-	-	-	-	-	ALL	2	-
42-AR-2	-	-	-	ALL	-	-	-	-	-	-	ALL	2	-
71-AR-6	-	-	-	32+27-74+00	30+27-32+27			-	-	-	ALL	3	CONSTR.ROAD ONLY
73-AR-1	-	-	-	0+00-30+51	-	-	-	-	-	-	ALL	3	-
74-AR-1	-	-	-	-	-	-	-	-	-	-	ALL	3	-
75-AR-3	-	-	-	C/L#141	-	-	-	-	-	-	ALL	3	-
76-AR-1	-	-	-	0+00-14+00	-	-	-	-	-	-	ALL	3	-
76-AR-3	-	-	-	-	G	-	-	-	-	-	ALL NEW C.	3	G @RD JCT
76-AR-2	-	-	-	0+00-6+00	-	-	-	-	-	-	ALL	3	-
76-AR-4	-	-	-	-	-	-	-	-	-	-	ALL	3	-
76-AR-5	-	-	-	-	-	-	-	-	-	-	ALL	3	-
77-AR-1	-	YES	-	-	-	-	-	YES	-	-	ALL	1	-
77-AR-2	YES	YES	-	-	-	-	-	YES	-	-	ALL	1	-
78-AR-1	YES	-	-	-	-	-	-	-	-	-	ALL	1	-
78-AR-2	-	YES	-	-	-	-	-	-	-	-	ALL	1	-
78-AR-3	-	YES	-	0+00-12+92	-	-	-	-	-	-	ALL	1	-
79-AR-1	-	YES	-	-	B	-	-	-	-	-	ALL	2	B @19+79
79-AR-3	-	-	-	0+00-3+20	-	-	-	-	-	-	-	2	-
80-AR-2	-	-	-	-	-	-	-	-	-	-	ALL	2	-

NINEMILE RANGER DISTRICT

JULY 1, 1983

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ROAD NO	SPEC STRM XING	TIME REST WR	PERMANENT CLOSURE	ROAD OBLIT	GATE CAT-TLE GRD BARR	ROAD SURF	PLANT TREES	ESCAPE RAMPS	TRAIL ACCES	FENCE	SCARIFY SEED RD SURFACE	SEED MIX	REMARKS
18066	-	YES	.49-1.34	-	B	-	1.1-1.9	-	-	-	-	1	B @ RD JCT
18067	@0.15	YES	0.0-0.3	-	-	-	-	-	-	-	-	2	-
18068	-	YES	-	0.0-0.2	-	-	-	-	-	-	-	1	-
18069	-	YES	-	0.0-0.2	-	-	-	-	-	-	-	2	-
18070	-	YES	0.0-0.4	-	B	-	-	-	-	-	-	2	B @ RD JCT
18071	-	-	-	-	-	-	-	-	-	-	ALL	2	-
18072	-	-	-	0.0-0.2	-	-	-	-	-	-	-	2	-
18073	@0.3	YES	0.0-0.5	-	B	-	-	-	-	-	-	2	B @ RD JCT
18074	@0.66	YES	-	-	G	-	-	-	-	-	ALL	2	G @ MP.1
18077	0	0	0	0.0-0.1	-	-	-	-	-	-	-	2	-
18078	-	-	-	-	G	-	-	-	-	-	1.8-2.9	2	G @ MP1.8
2146	-	-	-	-	-	-	-	-	-	-	-	2	EXISTING RD
453	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING RD
5561	-	YES	.46-1.37	-	-	-	-	-	-	-	-	-	MAJ.IMPROVE
5563	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING RD
5565	@0.0	-	0.1-2.3	-	-	-	-	-	-	-	-	2	EXISTING RD
5567	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING RD
5568	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING RD
16740	-	YES	-	0.0-0.6	-	-	-	-	-	-	-	1	-
16786	-	YES	-	0.0-0.2	-	-	-	-	-	-	-	1	-
17232	-	YES	-	0.0-0.1	-	-	-	-	-	-	1	1	-
16472	-	-	0.4-2.1	-	-	-	-	-	-	-	-	3	CLOSE NEW CONSTR
16473	-	-	0.0-0.1	-	-	-	-	-	-	-	-	3	-
17412	-	YES	-	-	G	-	0.7-1.1	-	@0.0	-	.65-1.25	G 2	0.0-POWD-RV
17414	-	-	-	-	-	-	-	-	-	-	-	3	-
17415	-	YES	-	-	-	-	-	-	-	-	-	3	-
18039	-	-	-	0.0-0.2	-	-	-	-	-	-	-	3	-
18040	-	-	-	0.0-0.1	-	-	-	-	-	-	-	2	-
18041	-	YES	-	0.0-0.3	-	-	-	-	-	-	-	2	-
18042	-	YES	-	-	-	-	0.0-0.4	-	-	-	0.0-0.4	2	-
18045	@0.0	YES	-	-	-	-	-	-	-	-	0.0-0.6	2	-
380	-	-	-	-	-	-	-	-	-	-	-	3	.2 NEW CONST
5469	-	YES	-	-	G	-	.75-.94	-	@.15	-	.55-2.3	1&2	G @.55-POWD RV
5511	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING RD
16500	-	-	-	-	-	-	-	-	-	-	0.0-0.3	2	-
16752	-	-	-	-	-	-	-	-	-	-	-	2	-
17417	-	YES	-	-	-	-	-	-	-	-	0.0-0.4	2	-
18054	-	YES	-	-	-	-	-	YES	-	-	0.0-1.2	2	-
18055	-	YES	-	-	-	-	-	YES	-	-	0.0-1.3	2	-
18056	-	YES	-	-	-	-	-	YES	-	-	0.0-1.5	2	-
18057	@1.1	YES	-	-	-	-	0.0-.8 1.97-2.2	YES	-	-	0.0-2.2	2	-

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                    NINEMILE RANGER DISTRICT                                       JULY 1, 1983

ROAD NO SPEC TIME PERMANENT ROAD     GATE ROAD PLANT    ESCAPE TRAIL FENCE SCARIFY   SEED  REMARKS
        STRM REST CLOSURE   OBLIT    CAT- SURF TREES    RAMPS  ACCES       SEED RD   MIX
        XING WR                      TLF                                   SURFACE
                                     GRD
                                     BARR

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18058   -    -    -         -        G    -    -        -      -     -     0.0-0.5   2     G 80.0
18059   -    -    -         0.0-0.1  -    -    -        -      -     -     -         2     -
18060   -    YES  0.0-0.5   -        -    -    -        -      -     -     -         2     -
18061   -    YES  -         0.0-0.1  -    -    -        -      -     -     -         2     -
18063   -    -    -         0.0-0.1  -    -    -        -      -     -     -         2     -
18064   -    -    -         0.0-0.1  -    -    -        -      -     -     -         2     -
18065   -    -    0.0-0.3   -        -    -    -        -      -     -     -         2     -
5471    -    -    -         -        26   -    4.6-5.8  -      -     -     0.0-7.6   2     G 80.0 & 7.6
                                               6.1-6.7
17271   -    YES  0.0-0.3   -        -    -    -        -      -     -     -         2     -
17277   -    YES  0.0-1.3   -        -    -    -        -      -     -     -         2     -
17278   -    YES  -         -        -    -    -        -      -     -     0.0-0.3   2     -
17279   -    YES  0.0-0.6   -        -    -    -        -      -     -     -         2     -
17280   -    YES  0.0-0.6   -        -    -    -        -      -     -     -         2     -
18062   -    -    0.0-0.4   -        -    -    -        -      -     -     -         2     -
454.2   -    -    -         -        -    -    -        -      -     -     -         2     EXISTING RD
518     -    -    -         -        -    -    -        -      -     -     -         2     MAJOR IMPROVE
9904    -    -    -         -        -    -    -        -      -     -     -         2     MAJOR IMPROVE
9912    -    -    -         -        -    -    -        -      -     -     -         2     MAJOR IMPROVE
9913    -    -    -         -        -    -    -        -      -     -     -         2     MAJOR IMPROVE
9914    -    -    -         -        -    -    -        -      -     -     -         2     MAJOR IMPROVE
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                    SUPERIOR RANGER DISTRICT                                                                    JULY 1, 1983

ROAD NO SPEC  TIME PERMANENT ROAD       GATE ROAD PLANT   ESCAPE TRAIL FENCE SCARIFY      SEED  REMARKS
        STRM  REST CLOSURE   OBLIT      CAT  SURF TREES   RAMPS  ACCES       SEED RD      MIX
        XING  WR                        TLE                                  SURFACE
                                        GRD
                                        BARR
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>  >

18709    -    YES  -         -          -    -    -       -      -     -       0.0-0.7    2     -
18710    -    YES  -         -          -    -    -       -      -     -       0.0-0.6    2     -
18711    -    -    -         -          -    -    -       -      -     -       0.0-0.28   2     -
18708    -    YES  -         -          -    -    -       -      -     -       0.0-0.45   2     -
16928    -    YES  -         -          G    -    -       -      -     -       -          1     G @0.0
16927    -    YES  -         -          -    -    -       -      -     -       -          1     -
6271+50  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0MP
6295+00  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0
6306+75  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0
6322+25  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0
6334+00  -         YES       -          B    -    -       -      -     -       YES        2     B @0.0
6367+25  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0
6375+78  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0
6402+00  -    YES  YES       -          B    -    -       -      -     -       YES        1     B @0.0
18745    -    YES  -         -          -    -    -       -      -     -       -          2     -
18744    -    YES  -         -          -    -    -       -      -     -       -          2     -
7891     -    -    -         -          G    -    -       -      -     -       -          2     G @0.0
18747    -    -    -         -          -    -    -       -      -     -       -          2     -
13567    -    -    -         -          -    0.0-0.3      -      -     -       -          2     -
18748    -    -    -         -          G    -    -       -      -     -       -          2     G @0.0
18749    -    -    -         -          G    -    -       -      -     -       -          2     G @0.0
19571    -    YES  -         -          G    -    -       -      -     -       -          2     G @0.0
6660+50  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6664+50  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6681+00  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6687+25  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6692+00  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6715+00  -    -    -         -          B    -    -       -      -     -       YES        2     B @0.0
6725+50  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6740+00  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
6781+00  -    YES  YES       -          B    -    -       -      -     -       YES        2     B @0.0
6787+64  -    -    YES       -          B    -    -       -      -     -       YES        2     B @0.0
18746    -    -    -         -          B    -    -       -      -     -       -          2     B @0.0
18743    -    -    -         -          B    -    -       -      -     -       -          2     B @0.0
18515    -    -    -         -          -    -    -       -      -     -       -          2     -
18738    -    -    -         -          -    -    -       -      -     -       -          2     -
18742    -    YES  -         -          -    -    -       -      -     -       -          2     -
18740    -    YES  -         -          -    -    -       -      -     -       -          2     -
18741    -    YES  -         -          G    -    -       -      -     -       -          2     G @0.0
18739    -    -    -         -          -    -    -       -      -     -       -          2     -
7757     -    -    -         -          G    -    -       -      YES   -       -          2     G @0.0
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                    SUPERIOR RANGER DISTRICT                                                                 JULY 1, 1983



ROAD NO SPEC  TIME PERMANENT ROAD      GATE ROAD PLANT   ESCAPE TRAIL FENCE SCARIFY     SEED  REMARKS
        STRM  REST CLOSURE   OBLIT     CAT- SURF TREES   RAMPS  ACCES       SEED RD     MIX
        XING  WR                       TLE                                  SURFACE
                                       GRD
                                       BARR

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7873    -     -    -         -         -    -    -       -      -     -     -           2     -
7880    -     YES  -         -         G    -    -       -      -     -     -           2     G @0.0
540     -     YES  -         -         G    -    -       -      -     -     -           2     G @0.0
6852+75 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
6859+50 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
6870+50 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
6915+75 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
6931+50 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
6962+00 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
6987+75 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
6997+00 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
7010+50 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
7023+75 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
7051+66 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
7872    -     -    -         -         G    0.0-1.2-     -      -     -     -           2     G @1.9
16947   -     -    -         -         -    -    -       -      -     -     -           2     -
18717   -     -    -         -         G    0.0-0.6-     -      -     -     -           2     G @0.0
16960   -     YES  -         -         G    -    -       -      -     -     -           2     G @0.0
18718   -     YES  -         -         -    -    -       -      -     -     -           2     -
18739   -     -    -         -         -    -    -       -      -     -     -           2     -
16932   -     -    YES       -         2B   -    -       -      -     -     0.0-1.0     2     B @0.0 & 1.0
18716   -     YES  -         -         -    -    -       -      -     -     -           2     -
9921    -     YES  -         -         G    2.1-3.3-     -      -     -     -           2     G @3.3
18719   -     YES  -         -         B    -    -       -      -     -     0.0-0.2     2     B @0.0
18609   -     -    -         -         -    -    -       -      -     -     -           2     -
18714   -     -    -         -         G    -    -       -      -     -     YES         2     G @0.0
7866    -     -    -         -         -    -    -       -      -     -     -           2     -
7871    -     PART -         -         -    -    -       (+1308 SQ FT FILTER CLOTH)     2     -
16951   -     YES  -         -         -    -    -       -      -     -     -           2     -
7056+00 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
7091+75 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
7092+50 -     YES  -         -         -    -    -       -      -     -     -           2     B @0.0
7104+00&7110+00-   -         -         B    -    -       -      -     -     -           2     B @0.0
7277+29 -     YES  YES       -         B    -    -       -      -     -     YES         2     B @0.0
7499+99 -     YES  YES       -         B    -    -       -      -     -     -           2     B @0.0
18712   -     YES  -         -         B    -    -       -      -     -     0.0-1.0     2     B @0.0
18519   -     YES  -         -         G    -    -       -      -     -     -           2     G @0.0
18713   -     -    -         -         -    -    -       -      -     -     -           2     -
7761    -     YES  -         -         G    -    -       -     YES    -     -           2     G @0.0
18703   -     YES  -         -         -    -    -       -      -     -     -           2     -
18704   -     YES  -         -         -    -    -       -      -     -     -           2     -
9113    -     YES(#21)-      -         G    0.0-2.5-     -      -     -     -           2     R/W PROB
7464+50 -     -    YES       -         B    -    -       -      -     -     YES         2     B @0.0
```

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                 SUPERIOR RANGER DISTRICT                                                                     JULY 1, 1983

ROAD NO SPEC  TIME PERMANENT ROAD       GATE ROAD PLANT    ESCAPE TRAIL FENCE SCARIFY      SEED  REMARKS
        STRM  REST CLOSURE   OBLIT      CAT- SURF TREES    RAMPS  ACCES       SEED RD      MIX
        XING  WR                        TLE                                   SURFACE
                                        GRD
                                        BARR

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7477+00 -     -    YES       -          B    -    -        -      -     -      YES         2     B a0.0
7505+00 -     -    YES       -          B    -    -        -      -     -      YES         2     B a0.0
7522+00 -     -    YES       -          B    -    -        -      -     -      YES         2     B a0.0
7527+00 -     -    -         -          B    -    -        -      -     -      0.0-2.3     2     B a0.0
7563+25 -     -    YES       -          B    -    -        -      -     -      YES         2     B a0.0
7643+42 -     YES  YES       -          B    -    -        -      -     -      YES         2     B a0.0
7648+50 -     -    -         -          B    -    -        -      -     -      0.0-.75     2     B a0.0
7658+50 -     -    -         -          B    -    .65-.75  -      -     -      YES         2     B a0.0
7686+00 -     YES(#21)YES    YES        B    -    0-.52    -      -     -      -           2     B a0.0
7693+32 -     YES(#21)       YES        B    -    -        -      -     -      -           2     B a0.0
```

```
ROAD NO.  SPEC     TIMING     PERMANENT  ROAD    GATE      ROAD     PLANT  ESCAPE  TRAIL  FENCE  SCARIFY    SEED       REMARKS
          STRM     RESTRC     CLOSURE    OBLIT   CTLGD     SUR-     TREES  RAMPS   ACCES         SEED RD    MIX
          XING     WR                            BARRIER   FACING                                SURFACE

7760      YES      YES        -          -       G         -        -      -       -      -      -          -          2      G @ 0
.4
18715     -        -          -          -       P         -        -      -       -      -      -          -          2      B @0.
0
7764+25   -        YES        -          -       P         -        -      -       -      -      -          0.0-.15    2      B @ 0
.0
AP 32 TO AP 35 INCOMPLETE
18737     -        YES        -          -       B         POSS     -      -       -      -      -          0.0-.3     2      B @0.
0
3808      YES(2)   PART       -          -       2         POSS     -      -       -      -      -          -          2/3    G@0.0
83.5
                                                 1C                                                                           C @ 8
56B+50
18736     -        -          -          -       -         POSS     -      -       -      -      -          -          2      -
7758      YES      YES(#21)              -       G         POSS     -      -       -      -      -          -          2/3    G @ 0
-
18727     -        -          -          -       B         POSS     -      -       -      -      -          0.0-.15    2      B @ 0
.0
18726     -        -          -          -       B         POSS     -      -       -      -      -          0.0-.1     2      B @ 0
.0
18725     -        -          -          -       B         POSS     -      -       -      -      -          0.0-.1     3      B @ 0
.0
18730     -        -          -          -       -         POSS     -      -       -      -      -          -          2      -
18729     -        -          -          -       B         POSS     -      -       -      -      -          0.0-.15    2      B @0.
0
18728     YES      -          -          -       G         POSS     -      -       -      -      -          -          3      G @ 0
.0
18723     -        -          -          -       B         POSS     -      -       -      -      -          0.0-.2     3      B @ 0
.0
16161     -        YES(#23)-             -       -         POSS     -      -       YES    -      -          -          2      -
18724     -        YES(#23)-             -       -         POSS     -      -       YES    -      -          -          2      -
16162     -        YES(#23)-             -       -         POSS     -      -       -      -      -          -          2      -
16161     -        YES(#23)              -       2 C&3G    POSS     -      -       -      -      -          -          2      -
16162     -        YES(#23)              -       -         POSS     -      -       -      -      -          -          2      G @ 0
.1
7837      -        YES(#23)              -       -         POSS     -      -       -      -      -          -          2      G @ 0
.0-
6424+00   -        YES        YES        -       B         POSS     -      -       -      -      -          0.0-.45    2      B @ 0
.0
8433+00   -        YES        YES        -       B         POSS     -      -       -      -      -          YES        -      B @ 0
.0
8452+00   -        YES        YES        -       P         POSS     -      -       -      -      -          0.0-.1     2      B @ 0
.0
8488+50   -        -          YES        -       P         POSS     -      -       -      -      -          0.0-.1     2      B @ 0
.0
8557+00   -        -          YES        -       P         POSS     -      -       -      -      -          0.0-.05    2      B @ 0
.0
8567+00   -        -          YES        -       P         POSS     -      -       -      -      -          0.0-.05    2      B @ 0
```

```
        .0
379     8631+50   -       -      YES      -     B     POSS   -     -     -     -     -     YES        2   B @ 0
        .0
380     8808+00   -       YES(#23)YES     -     B     POSS   -     -     -     -     -     0.0-.05    2   B @ 0
        .0
381     AP 37     -       -      -        -     -     POSS   -     -     -     -     -     -          2   -
382     3845      -       -      -        -     -     POSS                                            3
383     18720     -       YES(#23)YES     -     P     POSS   -     -     -     -     -     0.0-.15    3   B @ 0
        .0
384     18721     YES-2   YES(#23)-       -     -     POSS   -     -     -     -     -     -          3   -
385     18722     -       YES(#23)-       -     P     POSS   -     -     -     -     -     0.0-.1     3   B @ 0
        .0
386     7759      YES-10  YES(#23)-       -     3 G   POSS   -     -     YES                          3   B @ 2
        .4,2.8,8.7
387     18732     -       YES(#23)-       -     B     POSS   -     -     -     -     -     0.0-.2     3   B @ 0
        .0
388     18733     -       -      -        -     B     POSS   -     -     -     -     -     0.0-.3     3   B @ 0
        .0
389     18734     -       -      YES      -     P     POSS   -     -     -     -     -     0.0-.15    3   B @ 0
        .0
390     19731     -       -      YES      -     B     POSS   -     -     -     -     -     0.0-.1     3   B @ 0
        .0
391     3835      -       YES(#23)-       -     G     POSS   -     -     -     -     -     -          3   B @ 1
        .0
392     3845      -       -      -        -     -     YES    -     -     -     -     -     -          3   -
393     16156     -       YES(#23)-       -     -     POSS   -     -     -     -     -                3   -
394     9162+50   -       -      -        -     B     POSS   -     -     -     -     YES   0.0-.05    3   B @ 0
        .0
395
396
397
398
399
400
401
402
403
404
405
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409
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423
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DEER LODGE & PHILIPSBURG RANGER DISTRICT

ROAD NO.	SPEC STRM XING	TIMING RESTRC WR	PERMANENT CLOSURE	ROAD OBLIT	GATE CTLGD BARRIER	ROAD SUR-FACING	PLANT TREES	ESCAPE RAMPS	TRAIL ACCES	FENCE	SCARIFY SEED RD SURFACE	SEED MIX	REMARKS
302	-	-	-	-	-	-	-	-	-	-	-		-
5-AR-1	-	-	YES	-	G	-	-	-	-	-	YES		G @ 0.0
5-AR-2	-	-	YES	-	G	-	-	-	-	-	YES		G @ 0.0
5-AR-3	-	-	YES	-	G	-	-	-	-	-	YES		G @ 0.0
6-AR-1	-	-	YES	-	G	-	-	-	-	-	YES		G @ 0.0
6-AR-2	-	-	YES	-	G	-	-	-	-	MAYBE	YES		G @ 0.0
6-AR-3	-	-	YES	-	G	-	-	-	-	-	YES		G @ 0.0
3168	-	-	-	-	-	-	-	-	-	-	-		-
7-AR-1	-	-	YES	-	G	-	YES	-	-	MAYBE	YES		G @ 0.0
7-AR-2	-	-	YES	-	G	-	YES	-	-	-	YES		G @ 0.0
636	-	-	-	-	C	-	-	-	-	YES	-		C @
8-AR-1	-	-	YES	-	G	-	-	-	-	-	YES		G @ 0.0
8-AR-2	-	-	YES	-	G	-	YES	-	-	-	YES		G @ 0.0
358	-	-	-	-	-	-	-	-	-	-	-		-
30-AR-1	-	-	-	-	G	-	-	-	-	.5 MI	-		G @ 0.0
31-AR-1	-	-	-	-	C	-	-	-	-	.5 MI	-		C @
32-AR-1	-	-	-	-	G	YES	-	-	-	-	YES		SURFACE WATE
P													
4325	-	-	-	-	-	-	-	-	-	-	-		-
32-AR-2	-	-	YES	-	-	YES	-	-	-	-	YES		-
32-AR-3	-	-	-	-	G	YES	-	-	-	.5 MI	-		G @ 0.0
33-AR-1	-	-	YES	-	-	-	-	-	-	-	YES		-
33-AR-2	-	-	-	-	-	-	-	-	-	-	YES		-
HARVEY	-	-	-	-	C	YES	-	-	-	.5 MI	-		C @
33-AR-3	-	-	-	-	-	-	-	-	-	.5 MI	YES		-
34-AR-1	-	-	-	-	-	-	-	-	-	-	-		-
34-AR-2	-	-	-	-	-	-	-	-	-	-	-		-
35-AR-1	-	-	-	-	-	-	-	-	-	-	-		-
36-AR-3	-	-	-	-	-	-	-		-	.5 MI	-		-

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@PRT,CS BPA*STIPS.  TOWER/
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APPENDIX B. 3 TOWERS

BPA*STIPS(1).TOWER(4)

GARRISON-SPOKANE TRANSMISSION PROJECT
GARRISON-TAFT SEGMENT
SUMMARY OF TOWER STIPULATIONS

DEER LODGE & PHILIPSBURG RANGER DISTRICTS JULY 1,1983

TOWER NO.	STATION(AH)	LAND STATUS	DARKEN TOWER	SENSITIVE SITE	RESTRICT STRINGING	RESTRICT TIMING	REMARKS
0	57+74.6						@ SUBSTA
1/1	80+00						
1/2	88+50	PVT					
1/3	99+50	ST					
2/1	104+54.9	ST					
2/2	116+75						
2/3	125+50	ST					
3/1	143+00	PVT					
3/2	153+00	PVT					
3/3	167+50	PVT					
3/4	176+00	PVT					
3/5	185+50	PVT					
4/1	200+00	PVT					AP 1
4/2	217+25	PVT					
4/3	228+75	PVT					
4/4	237+50	PVT					
5/1	260+25	NF	YES	-	-	-	-
5/2	273+75	PVT					
5/3	303+00	PVT					
6/1	309+75	NF	YES	-	-	-	-
6/2	318+50	PVT					
6/3	325+00	NF	YES	-	-	-	-
6/4	334+25	NF	YES	-	-	-	-
6/5	344+50	NF	YES	-	-	-	-
6/6	350+50	NF	YES	-	-	-	-
7/1	387+50	NF	YES	YES	YES	-	-
7/2	390+25	NF	YES	YES	YES	-	-
7/3	406+00	NF	YES	YES	-	-	-
8/1	426+70	NF	YES	YES	-	-	-
8/2	434+00	NF	YES	-	-	-	-
8/3-	443+52.6	NF	YES	-	-	-	AP 2
	1156+05.2						AP 5
	1164+00						
	1180+50						
	1206+00						
	1213+50						
	1225+00						
	1238+50						
	1252+50						
	1260+00						
	1268+50						
	1286+50						
	1297+00						
	1306+50						
	1326+00						
	1335+00						
	1347+00						

57		1356+00						
58		1383+00						
59		1390+00						
60		1412+75						
61		1427+75						
62		1439+50						
63		1453+00						
64		1480+50						
65		1493+50						
66		1503+00						
67		1512+50						
68		1520+50						
69		1541+50						
70		1565+50						
71		1576+50						
72		1600+00						
73		2100+00	NF	-	-	-	-	AP 5A
74		2107+50	NF	-	-	-	-	-
75		2127+25	NF	-	-	-	-	-
76		2138+00	NF	-	-	-	-	-
77		2144+50	NF	-	-	-	-	-
78		2155+00	NF	YES	YES	YES	-	-
79	32/1	2176+00	NF	YES	YES	-	-	-
80	32/2	2188+00	NF	YES	YES	-	-	-
81	32/3	2198+00	NF	YES	YES	-	-	-
82	32/4	2207+00	NF	YES	YES	-	-	-
83	32/5	2213+25	NF	YES	YES	-	-	-
84	33/1	2246+00	NF	-	-	YES	-	-
85	33/2	2254+50	NF	-	-	-	-	-
86	33/3	2263+00	NF	-	-	-	-	-
87	33/4	2269+50	NF	-	-	-	-	-
88	34/1	2277+00	NF	-	-	-	-	-
89	34/2	2307+50	NF	-	-	YES	-	-
90	34/3	2322+27.5	NF	-	-	-	-	AP 6
91	35/1	2333+00	NF	-	-	-	-	-
92	35/2	2348+75	NF	-	-	-	-	-
93	35/3	2372+00	NF	-	-	-	-	-
94	36/1	2384+50	NF	-	-	-	-	-
95	36/2	2396+50	NF	-	-	-	-	-
96								
97								
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								

MISSOULA RANGER DISTRICT JULY 1,1983

TOWER NO.	STATION(AH)	LAND STATUS	DARKEN TOWER	SENSITIVE SITE	RESTRICT STRINGING	RESTRICT TIMING	REMARKS
36/2	2396+25	NF	YES	-	-	-	-
36/3	2407+00	NF	YES	-	-	-	-
36/4	2417+00	NF	YES	-	-	-	-
37/1	2436+00	NF	YES	YES	-	-	-
37/2	2461+25	NF	YES	-	-	-	-
37/3	2475+25	NF	YES	-	-	-	-
38/1	2488+37	NF	YES	-	-	-	AP 7
38/2	2493+75	NF	-	-	-	-	-
38/3	2512+00	NF	-	-	-	-	-
38/4	2530+00	NF	-	-	-	-	-
39/1	2555+50	NF	-	-	-	-	-
39/2	2568+00	NF	-	-	-	-	-
39/3	2573+00	NF	-	-	-	-	-
39/4	2588+00	NF	-	-	-	-	-
40/1	2618+00	NF	-	YES	-	YES(#7)	-
40/2	2631+25	NF	-	-	-	YES >	-
40/3	2640+75	NF	-	-	-	YES >	-
41/1	2655+00	NF	-	-	-	-	-
41/2	2663+75	NF	-	-	-	-	-
41/3	2675+00	NF	-	-	-	-	-
42/1	2695+00	NF	YES	-	-	-	-
42/2	2706+00	NF	YES	-	-	-	-
42/3	2716+50	NF	-	-	-	-	-
42/4	2733+25	NF	-	YES	-	-	-
	2755+00	NF	-	YES	-		
	2766+25						
	2776+00						
	2786+00						
	2799+00						
	2809+00						
	2824+75.6						AP 8

ROCK CREEK CROSSING IN STATE OF FLUX - AP 8 TO AP 10

TOWER NO.	STATION(AH)	LAND STATUS	REMARKS
	3508+02.4		AP 10
	3515+00		
	3523+00		
	3529+50		
	3552+00		
58/1	3572+50	NF	
58/2	3581+00	NF	
58/3	3606+50	CIC	
59/1	3612+50	CIC	
59/2	3635+50	NF	

171	59/3	3638+50	NF					
172	60/1	3671+00	CIC					
173	60/2	3677+00	CIC					
174	60/3	3688+00	CIC					
175	60/4	3702+00	CIC					
176	60/5	3710+00	CIC					
177	61/1	3742+00	CIC					
178	61/2	3745+00	CIC					
179	62/1	3775+00	CIC					
180	62/2	3785+50	CIC					
181	62/3	3798+50	ST					
182	62/4	3816+50	CIC					
183	63/1	3823+50	CIC					
184	63/2	3846+50	CIC					
185	63/3	3858+50	PVT					
186	63/4	3871+77	PVT					AP 11
187	64/1	3893+50	PVT					
188	64/2	3910+75	PVT					
189	64/3	3920+00	PVT					
190	65/1	3933+75	PVT					
191	65/2	3940+58.5	PVT					AP 12
192	65/3	3950+00	PVT					
193	65/4	3961+75	PVT					
194	66/1	3984+50	PVT					
195	66/2	3990+00	PVT					
196	66/3	4068+00	PVT					AP 13
197	66/4	4074+50	PVT					
198	66/5	4087+00	PVT					
199	67/1	4097+50	PVT					
200	67/2	4105+00	PVT					
201	67/3	4120+50	PVT					
202	67/4	4127+99.9	PVT					AP 14
203	67/5	4140+50	PVT					
204	68/1	4151+00	PVT					
205	68/2	4162+75	PVT					
206	68/3	4174+00	PVT					
207	68/4	4185+00	PVT					
208	68/5	4196+50	PVT					BTR XING AH
209	69/1	4218+00	PVT					
210	69/2	4228+25	PVT					
211	69/3	4246+00	ST					
212	70/1	4265+45	ST					
213	70/2	4277+75	ST					
214	70/3	4284+11.2	ST					AP 14A
215	70/4	4293+00	CIC					
216	71/1	4315+00	CIC					
217	71/2	4337+50	CIC					
218	71/3	4345+00	RN					
219	71/4	4351+50	RN					
220	72/1	4364+50	RN					
221	72/2	4384+50	PVT					
222	72/3	4394+25	PVT					
223	72/4	4407+00	PVT					
224	73/1	4439+50	NF	YES	YES	-	-	-
225	73/2	4443+75	NF	YES	YES	-	-	-
226	74/1	4538+01.9	NF	YES	YES	YES	-	AP 15
227	74/2	4547+50	NF	YES	-	-	-	-

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74/3    4561+00     NF     YES    -         -         -         -
75/1    4592+70     NF     YES    YES       -         -         -
75/2    4599+00     NF     YES    YES       -         -         -
75/3    4621+50     NF     YES    -         -         -         -
76/1    4642+00     NF     YES    YES       -         -         -
76/2    4659+50     NF     YES    -         -         -         -
76/3    4662+75     NF     YES    -         -         -         -
76/4    4680+00     NF     -      -         -         -         -
76/5    4685+75     NF     -      -         -         -         -
77/1    4714+50     NF     YES    YES       -         YES(#7)   -
77/2    4742+20     NF     YES    YES       -         YES  >    -
78/1    4754+50     NF     YES    -         -         YES  >    -
78/2    4769+00     NF     YES    -         -         YES  >    -
78/3    4781+50     NF     YES    -         -         YES  >    -
78/4    4792+00     NF     YES    -         -         YES  >    -
79/1    4806+50     NF     YES    YES       -         YES  >    -
79/2    4817+25     NF     YES    YES       -         -         -
79/3    4835+00     NF     YES    -         -         -         -
79/4    4847+50     NF     YES    YES       -         -         -
80/1    4876+60     NF     YES    YES       -         -         -
80/2    4881+50     NF     -      YES       -         -         -
81/1    4907+50     BN
81/2    4921+00     BN
81/3    4934+00     BN
81/4    4942+50     CIC
82/1    4963+00     CIC
82/2    4985+00     CIC
82/3    4991+25     CIC
83/1    5010+50     CIC
83/2    5034+75     CIC
83/3    5053+00     CIC
83/4    5057+67.3   CIC                                             AP 16
84/1    5079+00     CIC
84/2    5092+50     CIC
85/1    5121+50     CIC
85/2    5137+00     CIC
85/3    5150+00     CIC
85/4    5157+75     CIC


                           NINEMILE RANGER DISTRICT                          JULY 1,1983


85/5    5167+50     NF     -      -         -         -         -
86/1    5184+50     NF     -      -         -         -         -
86/2    5190+50     NF     YES    -         -         -         -
87/1    5221+75     NF     YES    -         -         -         -
87/2    5243+90     CIC
87/3    5252+50     CIC
87/4    5265+00     NF     YES                        YES(#7)   -
87/5    5270+50     NF     YES    -         -         YES  >    -
88/1    5290+50     NF     YES    -         -         YES  >    -
88/2    5307+00     NF     YES    YES       YES       YES  >    -
88/3    5323+50     NF     YES    YES       YES       YES  >    -
89/1    5338+50     NF     YES    YES       YES       YES  >    -
89/2    5358+50     NF     YES    YES       YES       YES  >    -
89/3    5362+50     NF     YES    YES       YES       YES  >    -
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285	89/4	5371+50	NF	YES	YES	YES	YES >	-
286	90/1	5385+50	NF	YES	YES	YES	YES >	-
287	90/2	5402+56.7	PVT					AP 17
288	90/3	5414+50	NF	YES	YES	YES	YES(#7)	-
289	90/4	5428+50	NF	YES	-	YES	YES >	-
290	91/1	5441+50	NF	YES	-	YES	YES >	-
291	91/2	5452+50	NF	YES	-	-	YES >	-
292	91/3	5466+50	PVT					
293	91/4	5475+00	PVT					CLK EK X AH
294	92/1	5543+00	PVT					AP 18
295	92/2	5558+00	NF	YES	YES	-	YES(#7)	-
296	92/3	5572+00	NF	YES	YES	-	YES >	-
297	93/1	5586+00	NF	YES	YES	YES	YES >	-
298	93/2	5617+00	PVT					
299	93/3	5624+00	NF	YES	YES	YES	YES >	-
300	94/1	5637+50	NF	-	-	YES	YES >	-
301	94/2	5651+00	NF	-	YES	YES	YES >	-
302	94/3	5662+00	NF	-	YES	YES	YES >	-
303	94/4	5667+25	NF	YES	-	YES	YES >	-
304	94/5	5682+00	NF	YES	-	-	-	-
305	95/1	5688+25	NF	YES	-	YES	-	-
306	95/2	5697+50	NF	YES	-	YES	-	-
307	95/3	5701+75	NF	YES	YES	YES	-	-
308	95/4	5735+00	NF	YES	-	-	-	-
309	96/1	5738+99.5	NF	YES	-	-	-	AP 19
310	96/2	5752+50	NF	YES	-	YES	-	-
311	96/3	5762+00	NF	YES	-	-	-	-
312	96/4	5770+25	NF	YES	-	-	-	-
313	96/5	5782+00	NF	YES	-	-	-	-
314	96/6	5787+00	NF	YES	-	-	-	-
315	97/1	5793+75	NF	YES	-	-	-	-
316	97/2	5821+00	NF	YES	-	-	YES(#7)	-
317	97/3	5825+50	NF	YES	-	-	YES >	-
318	97/4	5842+00	NF	YES	-	YES	YES >	-
319	98/1	5847+00	NF	YES	-	YES	YES >	-
320	98/2	5858+00	NF	YES	-	YES	YES >	-
321	98/3	5892+25	NF	YES	-	YES	YES >	-
322	99/1	5934+00	NF	YES	YES	YES	YES >	-
323	99/2	5937+50	NF	YES	YES	YES	YES >	-
324	99/3	5945+50	NF	YES	YES	YES	YES >	-
325		5950+30	NF	YES	YES	YES	YES >	-
326		5980+00	NF	YES	YES	YES	YES >	-
327		5995+20	NF	YES	YES	YES	-	-
328		6003+50	NF	YES	-	-	-	-
329		6038+25	NF	-	-	-	-	-
330		6044+50	NF	-	-	YES	-	-
331		6083+63.4	NF	-	-	-	-	AP 20
332		6089+25	NF	-	-	-	-	-
333		6121+50	NF	YES	-	-	YES(#7)	-
334		6145+50	NF	YES	YES	YES	YES >	-
335		6164+50	NF	YES	-	YES	YES >	-
336		6178+00	NF	YES	-	YES	YES(#7)	-
337		6212+50	PVT					
338		6231+50	NF	-	-	YES	-	-
339								
340								
341								

```
342                                   SUPERIOR RANGER DISTRICT                        JULY 1,1983
343
344           6233+26.7    NF     -       -        -        YES(#7)    AP 21
345           6264+50      NF     -       -        -        YES >      -
346           6271+50      NF     -       -        -        YES >      -
347           6295+00      NF     -       -        -        YES >      -
348           6306+75      NF     -       -        -        YES >      -
349           6322+25      NF     -       -        -        YES >      -
350           6334+00      NF     -       -        -        -          -
351           6348+00      NF     YES     -        -        -          -
352           6367+25      NF     YES     YES      -        YES >      -
353           6375+78.5    NF     YES     YES      -        YES >      AP 21A
354           6402+00      NF     -       YES      -        YES >      -
355           6418+75      NF     -       -        -        YES >      -
356           6583+03.2    NF     YES              -        YES >      AP 22
357     110/1 6623+25      NF     YES     -        -        YES >      -
358     110/2 6660+50      NF     YES     YES      -        -          -
359     111/1 6664+50      NF     YES     YES      -        -          -
360     111/2 6681+00      NF     YES     -        -        -          -
361     111/3 6687+25      NF     YES     -        -        -          -
362     111/4 6692+00      NF     YES     -        -        -          -
363     111/5 6715+00      NF     -       -        -        -          -
364     112/1 6725+50      NF     -       YES      -        -          -
365     112/2 6740+00      NF     -       YES      -        -          -
366     113/1 6770+50      NF     -       -        -        YES(#7)    -
367     113/2 6781+00      NF     -       YES      -        YES >      -
368     113/3 6797+64      NF     -       -        -        -          AP 23
369     113/4 6807+50      NF     -       YES      -        -          -
370     113/5 6814+25      NF     -       YES      -        -          -
371     114/1 6852+75      NF     -       YES      -        -          -
372     114/2 6859+50      NF     -       -        -        -          -
373     114/3 6870+50      NF     -       -        -        -          -
374     115/1 6881+50      NF     -       -        -        -          -
375     115/2 6915+75      NF     YES     YES      -        YES(#7)    -
376     115/3 6926+50      NF     YES     -        -        YES >      -
377     116/1 6931+50      NF     YES     -        -        YES >      -
378     116/2 6942+50      NF     YES     YES      -        YES >      -
379     116/3 6962+00      NF     YES     YES      -        YES >      -
380     117/1 6987+75      NF     -       -        -        YES >      -
381     117/2 6997+00      NF     -       YES      -        YES >      -
382     117/3 7010+50      NF     -       YES      -        YES >      -
383     117/4 7023+75      NF     -       -        -        YES >      -
384     118/1 7051+66.3    NF     -       -        -        -          AP 24
385     118/2 7056+00      NF     -       YES      -        -          -
386     118/3 7081+75      NF     -       YES      -        YES(#7)    -
387     119/1 7092+50      NF     -       YES      -        YES >      -
388     119/2 7104+00      NF     YES     YES      -        YES >      -
389     119/3 7110+00      NF     YES     YES      -        -          -
390     120/1 7145+50      PVT
391     120/2 7153+00      PVT
392     120/3 7157+00      ST
393     120/4 7162+75      ST
394     121/1 7198+50      ST
395     121/2 7207+00      ST
396     121/3 7216+50      ST
397     121/4 7227+50      ST
398     122/1 7245+00      NF     -       -        -        YES >      -
```

399	122/2	7268+00	NF	-	-	-	YES >	
400	122/3	7277+29	NF	-	-	-	YES >	AP 25
401	122/4	7291+50	NF	-	-	-	YES >	-
402	122/5	7295+75	NF	-	-	-	YES >	-
403	123/1	7309+00	PVT					
404	123/2	7324+30	PVT					
405	123/3	7332+50	PVT					
406	124/1	7362+00	PVT					
407	124/2	7372+50	NF	-	YES	-	YES >	-
408	124/3	7381+25	NF	-	YES	-	YES(#7)	-
409	124/4	7386+50	NF	-	-	-	YES >	-
410		7406+50	NF	-	YES	-	YES >	-
411		7412+75	NF	-	YES	-	YES >	-
412		7449+99.2	NF	-	-	-	YES >	AP 26
413		7464+50	NF	-	YES	-	YES >	-
414		7477+00	NF	-	YES	-	YES >	-
415		7505+00	NF	-	-	-	-	-
416		7522+00	NF	-	YES	-	YES >	-
417		7527+00	NF	-	YES	-	YES >	-
418		7563+25	NF	-	-	-	-	-
419		7592+75	NF	-	-	-	-	-
420		7622+75	NF	-	-	-	YES >	-
421		7633+25	NF	YES	YES	-	YES >	-
422		7643+42.2	NF	YES	YES	YES	YES >	AP 27
423		7648+50	NF	YES	YES	YES	YES >	-
424		7658+63	NF	YES	YES	YES	YES >	AP 28
425		7686+00	NF	YES	YES	YES	YES(7&21)	-
426		7693+32.2	NF	YES	YES	YES	YES >	AP 29
427		7720+00	ST					AP 30
428		7730+25	ST					
429		7743+00	ST					
430		7751+00	ST					
431	131/1	7764+25	ST					
432	131/2	7777+92.2	PVT					AP 31
433	131/3	7789+00	PVT					
434	131/4	7800+75	ST					
435	132/1	7817+00	ST					
436	132/2	7828+50	ST					
437	132/3	7838+25	ST					
438	132/4	7853+50	NF	YES	YES	-	YES(#7)	-
439	133/1	7866+00	NF	YES	YES	-	-	-
440	133/2	7882+50	NF	YES	YES	-	YES >	-
441	133/3	7890+45.9	NF	YES	YES	YES	YES >	AP 32
442	133/4	7907+00	NF	YES	YES	YES	YES >	-
443		7915+50	NF	YES	YES	YES	YES >	-
444		7941+50	PVT					
445		7948+00	PVT					
446		7992+25	NF	YES	YES	YES	-	-
447		7997+50	NF	YES	YES	YES	-	-
448		8032+25	NF	YES	YES	-	-	-
449		8042+50	NF	YES	YES	-	-	-
450		8059+50	NF	-	-	-	-	-
451		8080+00	NF	-	YES	-	-	-
452		8085+00	NF	-	-	-	-	-
453		8140+04.8	NF	-	-	-	-	AP 33
454		8146+25	NF	-	-	-	-	-
455		8166+25	NF	-	-	-	-	-

456		8191+50	NF	-	-	-	-	-
457		8201+50	NF	YES	-	-	-	-
458		8209+50	NF	YES	-	-	-	(NO
459		8234+50	NF	YES	YES	YES	-	AP
460		8250+25	NF	YES	YES	YES	-	34)
461		8260+00	NF	YES	YES	-	-	-
462		8269+50	NF	YES	YES	-	-	-
463		8301+50	NF	YES	YES	-	-	-
464		8305+50	NF	YES	YES	-	-	-
465		8331+00	NF	YES	YES	-	-	-
466		8341+00	NF	YES	YES	-	-	-
467		8353+75	NF	YES	YES	YES	-	-
468		8363+00	NF	YES	YES	YES	-	12-MILE AH
469		8400+00	NF	YES	YES	-	YES(#7)	AP 35
470		8408+00	NF	YES	YES	-	YES >	-
471	143/1	8424+00	NF	YES	-	-	YES >	-
472	143/2	8433+00	NF	YES	-	-	YES >	-
473	143/3	8452+00	NF	YES	-	-	YES >	-
474	144/1	8468+00	NF	YES	-	-	YES >	-
475	144/2	8488+50	NF	YES	-	-	-	-
476	144/3	8495+00	NF	YES	-	-	-	-
477	144/4	8509+50	NF	YES	-	-	-	-
478	145/1	8530+50	NF	YES	-	-	-	-
479	145/2	8537+50	NF	YES	-	-	-	-
480	145/3	8557+00	NF	YES	-	-	-	-
481	145/4	8567+00	NF	YES	-	-	-	-
482	146/1	8571+50	NF	YES	-	-	-	-
483	146/2	8589+00	NF	YES	-	-	YES(#21)	-
484	146/3	8601+50	NF	YES	-	-	YES >	-
485	146/4	8605+02.9	NF	YES	-	-	YES >	-
486	147/1	8624+50	NF	YES	-	-	YES >	-
487	147/2	8631+50	DIA					
488	147/3	8642+00	DIA					
489	147/4	8650+50	PVT					
490	147/5	8659+00	NF	YES	YES	-	YES(#21)	-
491	147/6	8666+75	NF	YES	-	-	YES(#21)	-
492	148/1	8688+75	NF	YES	YES	-	-	-
493	148/2	8697+50	NF	YES	YES	-	-	-
494	148/3	8713+50	NF	YES	YES	-	-	-
495	148/4	8727+05	NF	YES	-	-	-	-
496	149/1	8742+00	NF	YES	-	-	-	-
497	149/2	8757+00	NF	YES	YES	-	-	-
498	149/3	8762+50	NF	YES	-	-	-	-
499	149/4	8770+25	NF	YES	YES	-	-	-
500	150/1	8794+00	NF	YES	-	-	YES(#23)	-
501	150/2	8808+00	NF	YES	-	-	YES >	-
502	150/3	8819+00	NF	YES	-	-	YES >	-
503		8835+75	NF	YES	-	-	YES >	-
504		8847+00	NF	YES	YES	-	YES >	-
505		8879+85.3	NF	YES	-	-	YES >	AP 37
506		8997+25	NF	YES	-	-	YES >	-
507		8910+00	NF	YES	-	-	YES >	-
508		8921+50	NF	YES	-	-	YES >	-
509		8932+75	NF	YES	-	-	YES >	-
510		8940+00	NF	YES	YES	-	YES >	-
511		8953+00	NF	YES	-	-	YES >	-
512		8969+00	NF	YES	-	-	YES >	-

```
513        8977+50     NF    YES    -       -      YES >   -
514        8998+00     NF    YES    -       -      YES >   -
515        9008+00     NF    YES    YES     -      YES >   -
516        9020+50     NF    YES    YES     -      -       -
517        9039+50     NF    YES    -       -      -       -
518        9053+50     NF    YES    -       -      -       -
519        9076+50     NF    YES    -       -      -       -
520        9091+00     NF    YES    YES     -      -       -
521        9099+00     NF    YES    -       -      -       -
522        9110+50     NF    YES    YES     -      -       -
523        9128+00     NF    -      -       -      -       -
524        9133+37.3   NF    -      -       -      -       AP 38
525        9155+00     NF    -      YES     -      -       -
526        9162+50     NF    -      -       -      -       -
527        9178+50     NF    -      YES     -      -       -
528        9198+00     NF    -      YES     -      -       -
529        9213+25     NF    -      YES     -      -       -
530        9231+25     NF    -      YES     -      -       -
531        9242+16.5   NF    -      -       -      -       AP 39(D-HS)
532
533    AP 39 TO  TAFT SUB NOT AVAILABLE

@DELETE,C LISTER-2821.
```

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RUNID: 116BPA   ACCT: 1101161921     PROJECT: BPA

***** DISPLAYED LOG ENTRY SECTION *****
 14:34:03         116BPA FIN

***** RESOURCE UTILIZATION SECTION *****
  RESOURCE                                                 AVG
    TIME          CPU            IO            CCER       SIZE  QUALIFIER    FILENAME     PROGRAM      VERSION
 ------------ ------------ ------------ ------------ ---- ------------ ------------ ------------ ------------
 00:00:00.569 00:00:00.000 00:00:00.245 00:00:01.045  13K  SYS$         LIB$         FURPUR
 00:00:00.733 00:00:00.013 00:00:01.204 00:00:01.099  10K  SYS$         LIB$         ED
 00:00:08.899 00:00:00.021 00:00:00.774 00:00:04.543  51K  US           FS           SORT
 00:00:00.355 00:00:00.008 00:00:00.651 00:00:00.462  10K  SYS$         LIB$         ED
 00:00:07.329 00:00:00.075 00:00:09.750 00:00:07.097  13K  SYS$         LIB$         FURPUR
 00:00:01.034 00:00:00.000 00:00:00.739 00:00:08.083   4K  RESOURCES USED IN CONTROL MODE
 ------------ ------------ ------------ ------------ ----
 00:00:18.911 00:00:00.120 00:00:13.364 00:00:22.321  16K  SUMMARY

 IMAGES  READ:   46        PAGES:  38

 START:    14:33:48 JUL 22,1983    FIN:  14:34:03 JUL 22,1983

***** COST SECTION *****

 CHARGES BASED ON   BATCH  RUN  AT L PRIORITY
 RT  ($000.68/MIN)    :$000000.21
 CPU ($001.44/MIN)    :$000000.00
 IO  ($000.75/MIN)    :$000000.16
 CCER($001.44/MIN)    :$000000.53
                       ----------

 ESTIMATED TOTAL COST:$000000.90
                       ==========
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APPENDIX C

MEMORANDUM OF AGREEMENT

Between

ADVISORY COUNCIL ON HISTORIC PRESERVATION

and

MONTANA STATE HISTORIC PRESERVATION OFFICER

and

FOREST SERVICE, REGION I

UNITED STATES DEPARTMENT OF AGRICULTURE

and

BUREAU OF LAND MANAGEMENT, STATE DIRECTOR - MONTANA

UNITED STATES DEPARTMENT OF THE INTERIOR

and

BONNEVILLE POWER ADMINISTRATION

UNITED STATES DEPARTMENT OF ENERGY

[illegible] D.C.

JUN 30 1983

WHEREAS, the Bonneville Power Administration (BPA) has determined that construction of a 500-kV powerline from Garrison, to Taft, Montana, will have an effect upon properties included in or eligible for inclusion in the National Register of Historic Places and has requested the comments of the Advisory Council on Historic Preservation pursuant to Section 106 of the National Historic Preservation Act (16 U.S.C. 470) and its implementing regulations, "Protection of Historic and Cultural Properties" (36 CFR Part 800), NOW, THEREFORE, BPA, The Montana State Historic Preservation Officer (SHPO), the U.S. Forest Service, the Bureau of Land Management, and the Advisory Council on Historic Preservation (Council) agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties.

Stipulations

BPA will ensure that the measures enumerated below are carried out:

1. The 125-foot right-of-way for the 500-kV powerline will be completely surveyed to identify extant historic properties eligible for or included in the National Register. Within a 2-mile-wide visual corridor all historic structures and structural remains will be identified and evaluated to determine environmental impact. Access roads will be surveyed in accordance with Attachment A.

2. BPA will send the SHPO and, as appropriate, the U.S. Forest Service and the Bureau of Land Management (appropriate Federal land manager) site forms, locational information, and photographic documentation for all historic properties identified through the surveys performed; BPA's assessment of the effect of the project on the sites recommended as eligible; and BPA's proposed application of treatments, chosen from the treatment options outlined in Attachment B.

3. The SHPO and appropriate Federal land manager will respond to BPA with their recommendations on eligibility, effect, and appropriateness of treatment options selected within 15 working days from receipt of the information.

4. If BPA, the SHPO, and the appropriate Federal land manager concur on all three factors (eligibility, effect, and treatment), BPA will apply the treatment.

5. If the SHPO and BPA, or the appropriate Federal land manager and BPA disagree on site eligibility, BPA will seek a determination of eligibility from the Keeper of the National Register of Historic Places following 36 CFR 63. The other procedures described in this Agreement will apply if the Keeper of the National Register of Historic Places recommends that the site in question is eligible.

6. If the SHPO or appropriate Federal land manager and BPA disagree on the project's effect on an eligible property or on treatments proposed by BPA, BPA will forward all available documentation and correspondence to the Council for its recommendations. The Council will make its recommendations within 15 working days from receipt of the documentation. BPA will adhere to the treatments prescribed by the Council or notify the Council's Executive Director as to why the recommendations cannot be followed and

request he ask the Chairman to schedule the issue for consideration at a Council meeting. The site will be protected until the Chairman has responded and/or the Council has provided its comments.

7. For archeological and historical properties identified after construction has begun in previously surveyed areas, BPA will ensure site protection until the completion of the procedures which follow:

   a. BPA will ensure site recordation, at least to the inventory level, by a professional archeologist or historian, as appropriate, and forward that information along with a BPA recommendation for any further treatment measures to the SHPO and the appropriate Federal land manager for comment.

   b. The SHPO and the appropriate Federal land manager will have 5 working days from receipt of that information to make recommendations to BPA on treatment.

   c. BPA will proceed with a treatment plan, having considered SHPO and the appropriate Federal land manager recommendations.

Execution of this Memorandum of Agreement evidences that BPA has afforded the Council a reasonable opportunity to comment on the construction of the 500-kV powerline between Garrison and Taft, Montana, and its effects on historic properties and that BPA has taken into account the effects of its undertaking on historic properties.

5/12/83
Assistant Administrator for (date)
Engineering & Construction
Bonneville Power Administration

5-18-83
Montana State Historic (date)
Preservation Officer

5-23-83
Regional Forester, Region I (date)
U.S. Forest Service

6/3/83
For Bureau of Land Management (date)
State Director - Montana

June 23 1983
Executive Director (date)
Advisory Council on Historic Preservation

Chairman (date)
Advisory Council on Historic Preservation

Wg2380E

ATTACHMENT A

Access Roads Survey Plan for Cultural Resources: Bonneville Power Administration's Garrison-Taft 500-kV Project

Previous cultural resources surveys in the project area (cf. Choquette and Holstine 1982), survey work done to date on the Garrison-Taft project, and analysis of the project by the Montana State Historic Preservation Office (SHPO) (Vanek 1982) all indicate that the area to be impacted by the proposed project generally has a low likelihood of impacting cultural resource sites. In order to maximize a cultural resources survey for the access roads component of the project, a judgmental survey strategy has been developed in consultation with the Montana SHPO and the Lolo National Forest. The decision to employ a judgmental survey was made in order to maximize time and funding available for survey and recognizes the extremely low potential of most of the project area to contain prehistoric cultural resource sites and the fact most historic sites affected by access roads will have been identified previously through centerline survey.

The association between archeological sites and environmental variables, focusing on landforms, has provided a general framework in the development of a sampling plan. This is consistent with previous analyses of the various project alternatives (i.e., Vanek 1982; Choquette and Holstine 1982) and with the methods developed by the Zone Archeologist for the Lolo National Forest. Landforms and their associated site types are: alluvial flat (base camp, transient camp), upland slope (quarry, dependent on local geology), bench (cairn, quarry), saddle (encampment, trail), canyon wall (rock art, rock shelter, and overlook (cairn, vision quest).

Available access road maps have been reviewed with the Zone Archeologist and SHPO to determine which areas to be impacted by access road construction have a likelihood of containing cultural resource sites. Areas considered likely to contain sites were marked on project maps. These areas will be intensively surveyed. A log of all access roads, indicating those to be surveyed will be forwarded to SHPO and to the Zone Archeologist. Although the survey strategy places greatest emphasis on those areas likely to contain sites, areas of low probability also will be examined. This will occur as the survey teams traverse these areas in the course of gaining access to the higher probability areas. All surveyed areas will be documented as the survey progresses and in the final report. It should be noted that all access road maps are not yet available for examination; ongoing consultation with the U.S. Forest Service and the Montana SHPO will be necessary as maps become available to ensure survey of all representative locales.

Access roads, or portions of roads, which will be examined for cultural resources will be surveyed along the entire 50-foot right-of-way of the road. Roads which will be reconstructed will be subjected to a reconnaissance level survey--i.e., "windshield survey." However, those areas which have been identified as having high likelihood of containing sites will be intensively surveyed. Areas with subsurface potential may also be identified by field crews and will be intensively surveyed also.

Areas which may contain historic sites also were considered in the development of the sampling strategy. Survey of the project centerline right-of-way, inventory of the two-mile-wide corridor along the centerline, and analysis provided by the cultural resources overview have provided an inventory of historic sites and isolated historic features. Using this documentation of historic activity as the primary selection factor, access roads were then evaluated for additional survey.

The access road survey will include two distinctive types of roads--roads to be constructed and new construction. Roads which will be reconstructed will receive a reconnaissance level survey along their entire length; those areas which are considered to have likelihood for containing cultural deposits, based on landform, will be intensively surveyed. Consideration will be given to historic aspects of these roads (e.g., CCC-constructed bridges, culverts, etc.), if appropriate. Access roads which will require new construction will be surveyed for cultural resources in those areas identified as "sensitive" by the Zone Archeologist, SHPO, and BPA's cultural resources consultants.

Definitions of cultural resources, site inventory methods, documentation forms, etc., will follow the methodology developed for the centerline survey. The right-of-way for planned access roads is a maximum of 50 foot-wide. Areas to be surveyed for cultural resources will be walked by a two-person team (one archeologist and one historian) in a "lazy S" pattern. All cultural resources within the right-of-way will be recorded and evaluated for National Register eligibility. In addition, historic properties within 125 feet of the right-of-way will be inventoried. Certain areas of new access road construction have been identified by the Zone Archeologist as having a high probability of containing archeological sites. These areas will be "spot-shovel"-tested or augered to determine whether or not buried artifacts/ cultural deposits are present.

It is recognized that there may be last-minute changes in access road locations. This will necessitate close coordination between BPA and the Zone Archeologist. As last-minute changes become known, BPA's cultural resources consultants will meet with the Zone Archeologist to determine whether or not an on-the-ground survey is necessary. All access road changes will be documented in the road log and will be forwarded to the Zone Archeologist and the SHPO.

Reports on access road surveys will include: (1) Description of road (new/rebuild) and locations with appropriate references to tower number, angle points, FS road numbers, or whatever means are most appropriate to identify location of a road in the context of the powerline construction project; (2) (a) Previously recorded sites, if there are any, (b) "sensitive areas," as determined by the Zone Archeologist, or by literature search, overview information, centerline studies of historic resources, etc.; (3) Total length of road broken down into portions of road subjected to reconnaissance and intensive survey; (4) Findings; and (5) Map.

Where access roads occur on lands under the jurisdiction of the Bureau of Land Management, the same principles shall apply but the federal consulting party shall be the Bureau of Land Management instead of the Forest Service. In all such cases where determinations, identifications or meetings involving the Forest Service Zone Archeologist are required, the Bureau of Land Management Butte District Archeologist will be substituted and will provide the required cultural resource input for procedures on Bureau of Land Management lands.

ATTACHMENT B

Possible Mitigation Treatments for National Register-Eligible Historic Properties

BPA Garrison-Taft Project

All National Register-eligible sites will be declared "off limits" to all construction personnel in the BPA application and as a part of all construction contracts. All construction personnel, as a matter of course, will be bonded in order to ensure compliance with the access restrictions. The construction contractor is required to furnish bonds in the amount of 50 percent of the contract price. Additionally, the construction contractor shall obtain and maintain liability insurance covering all operations with limits of not less than $250,000/$500,000 personal injury and $1,000,000 property damage.

All landowner and contractor-negotiated agreements in or near archeological and historical sensitive areas shall be reviewed by the BPA Contracting Officer prior to implementation of such agreements as a means of preventing inadvertent impacts to these sensitive areas.

Each of the following mitigation measures will be considered for National Register-eligible sites as indicated on the attached list.

Possible treatments to National Register-eligible sites include:

1. Monitoring by historians and/or archeologists during access road clearing and construction phases.

2. Monitoring during line clearing and construction phases.

3. Transmission line towers will be darkened and nonspecular conductors used within the viewshed of the site.

4. Transmission towers will be moved along the present alinement to minimize visual intrusion upon the historic site.

5. The transmission line will be relocated from its present alinement so as to avoid or minimize impact to the site.

6. A site will be recorded to the level of documentation prescribed by the National Park Service Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) which may include but not necessarily be limited to site history, photographs, and measured drawings. The recordation will be done to HABS/HAER standards and must be found acceptable to HABS/HAER prior to alteration of the site. Copies of this documentation will be provided HABS/HAER, the SHPO, local archives and the appropriate Federal land manager upon request.

7. In order to further general knowledge and understanding of visual impacts to historic sites resulting from powerline construction, "before and after" photographs will be taken looking from various points at the

historic site toward the proposed powerline. The "photomontage" technique will be employed in order to predict tower and line visibility from the sites. An analysis of predictive capabilities of this method of recording will be prepared. All documentation will be submitted to the SHPO.

8. BPA shall ensure that, based on the principles in Part I of the Council's handbook, Treatment of Archeological Properties, a plan is developed in consultation with the SHPO and appropriate Federal land manager specifying: (1) which properties or portions of properties shall be subjected to data recovery; (2) which may be destroyed without such attention; and (3) what research questions shall be addressed by the data recovery effort and in what manner. BPA shall ensure that the plan is responsive to the guidelines in Part III of the handbook. BPA shall submit the plan to the SHPO, appropriate Federal land manager, and the Council for 15-day review. Unless the SHPO, appropriate Federal land manager, or the Council objects within 15 days after receipt of the plan, BPA shall ensure that the plan is implemented.

9 BPA shall ensure that a plan to preserve in-place archeological properties specified in this Agreement is developed in consultation with the SHPO and appropriate Federal land manager and submitted to the SHPO and appropriate Federal land manager for review. Unless the SHPO or the appropriate Federal land manager objects within 15 days after receipt of the plan, BPA shall ensure that the plan is implemented.

10. BPA will devise methods of controlling access to the site, such as keeping gates along access routes locked, constructing gates near historic properties in order to restrict access, etc., and will direct construction contractors and maintenance crews to avoid impacting or vandalizing the site.

11 BPA will negotiate with property owner(s) and devise means to control access to the site. Fences or gates may be constructed.

12. Landscaping will be undertaken to minimize visibility of the access roads or the transmission line from the site.

13. Historic structures will be relocated in accordance with accepted preservation treatments (Secretary of the Interior's Standards).

14. Planned access roads in the vicinity of the site will be relocated so as to minimize site disturbances, visual impact, and public access.

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APPENDIX D

MONITORING COST ESTIMATES

A. CONSTRUCTION MONITORING - A monitoring program designed to ensure that performance of construction related mitigating measures are carried out and the results of said measures are effective. 1/

Labor:	
State Project Coordinator and other Resource Specialists.	$35,000
Equipment and Travel:	$10,000
Total Construction Monitoring	$45,000

1/ Funds for Forest Service participation have been committed through the BPA-FS Project Plan.

B. REVEGETATION MONITORING - A program to assess the effectiveness of rehabilitation of disturbed areas. 2/

Labor	$ 2,400
Equipment and Travel	$ 300
Total Revegetation Monitoring: $	$ 2,700

2/ The Construction Monitoring cost estimate includes funds for State of Montana participation in revegetation studies.

C. ROAD CLOSURE MONITORING - A sample study to determine the effectiveness of various road closure methods.

No direct costs to be borne by project. Monitoring accomplished through ongoing monitoring of the transportation system on National Forest System lands. Periodic maintainance inspections by BPA will also contribute road monitoring information.

D. FISHERIES MONITORING - A study by the Forest Service to assess the impact to six streams by clearing and construction activites.

Task 1 - Water Quality/Aquatic Invertebrates, three streams (FS)

	1983	1984	1985-87
Labor	$2,200	$1,890	$4,860
Material	60	60	180
Travel	225	165	495
Lab Analysis	1,650	1,020	900
Subtotal	4,135	3,135	6,435
GA(157)	620	470	965
TOTAL	$4,755	$3,605	$7,400

Total 5-year cost = $15,760

Task 2 - Fish Populations (DFWP)

	1983-84
Labor	$18,000
Equipment	5,362
Travel	3,080
O.H. (20%)	4,916
Total	$31,358

TOTAL PROJECT COST:

Task 1 -	$15,760
Task 2 -	$31,358
Total	$47,118

E. ELK MONITORING - A monitoring effort to determine the impacts to elk and their habitat, and to hunter opportunity as a result of activities associated with operation of the transmission line.

	Elk	Hunters
Labor -		
Biologist, 1,316 days @ $95/day	$119,300	$ 5,700
Seasonal Assistant, 388 days @ $65/day	21,300	3,900
Survey Specialist, 120 days @ $85/day		10,200
Survey Assistant, 120 days @ $80/day		9,600
Subtotal	102,075	29,400
Equipment -		
Check Station		3,000
Survey forms		1,000
Radio transmitters 80 @ $200	16,000	
Telonics TR-2 with Scanner	2,600	
Spotting Scope	250	
Binoculars	200	
Drive Net (1000 feet)	2,000	
Car Counters 4 @ $250	1,000	
Miscellaneous equipment	500	
Subtotal	22,550	4,000
Helicopter time - (capture elk)	3,000	
Airplane time (monitor radio collars)	48,000	
Mileage	18,000	4,080
Per Diem 64 days/yr./3 yrs. @ $50/day	9,000	600
Computer	25,000	3,000
Total Cost	$103,000	7,680
Total - Elk Study	$266,150	
Total - Hunter Survey		41,080

Grand Total $307,230

F. SOCIOECONOMIC-VISUAL EFFECTS-HIGHWAY TRAVELERS MONITORING - Initial efforts are to develop a detailed study proposal. Funds are set aside, as needed should the proposal be implemented in full or in part.

Labor (to develop study proposal)		$4,000
Reserved funds:	By Bonneville Power Administration	$40,000
	By Montana DNRC 1/	$40,000

1/ Reserve may be in equivalent labor and support or in matching money.

G. TRANSMISSION LINE VISIBILITY MEASUREMENTS - A study to determine at what distance darkended and undarkend towers become visually intrusive.

Labor:	
Trained observers	$8,400
Equipment:	
Camera, Rangefinder, Film	$ 100
Travel:	
Car Rental	$1,500
TOTAL	$10,000

H. CULTURAL RESOURCES - During the construction phase, monitoring will be conducted in accordance with all applicable regulations and agreements.

Labor		$ 7,734
Equipment and Travel		3,650
	TOTAL	$11,384

I. RECREATION MONITORING AT ROCK CREEK - A study to measure the type and magnitude of impacts on recreationists.

Labor		$35,820
Travel and Equipment		7,200
	Total	$43,020